REPORT

01-0513 5DMS 41558

Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002

General Electric Company Pittsfield, Massachusetts

August 2002





Corporate Environmental Programs General Electric Company 100 Woodlawn Avenue, Pittsfield, MA 01201

SDMS 41558

Transmitted Via Overnight Courier

August 30, 2002

Mr. Bryan Olson EPA Project Coordinator U.S. Environmental Protection Agency EPA New England One Congress Street, Suite 1100 Boston, Massachusetts 02114-2023

Re: GE-Pittsfield/Housatonic River Site

Groundwater Management Area 3 (GECD330)
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002

Dear Mr. Olson:

In accordance with GE's approved Baseline Monitoring Program Proposal for Plant Site 2 Groundwater Management Area (April 2001), enclosed is the Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002. This report summarizes activities performed at Groundwater Management Area (GMA) 3 (also known as the Plant Site 2 GMA) during spring 2002, including the results of the first round of sampling and analysis of groundwater performed as part of the baseline monitoring program for GMA 3 and the results of GE's non-aqueous phase liquid (NAPL) monitoring and recovery program in this area.

As discussed in this report, GE has not yet obtained access agreements for all monitoring well locations located on non-GE-owned property at this GMA. Therefore, GE is proposing to omit the fall 2002 baseline groundwater sampling event if such access cannot be obtained in time to collect the full set of samples in the approved baseline monitoring program. In that case, GE would subsequently conduct a minimum of two years of semi-annual baseline groundwater quality sampling after the necessary access has been obtained. In the meantime, GE will continue with the groundwater elevation monitoring (at wells where it has access) and with NAPL monitoring/recovery activities at this GMA. Please call Andrew Silfer or me if you have any questions regarding this report.

In F. Morty My fee

John F. Novotny, P.E.

Manager - Facilities and Brownfields Programs

NAS/nls Enclosure cc: Michael Nalipinski, EPA

Tim Conway, EPA (cover letter only)

Holly Inglis, EPA

Rose Howell, EPA

K.C. Mitkevicius, USACE

Dawn Jamros, Weston

Alan Weinberg, MDEP (cover letter only)

Robert Bell, MDEP (cover letter only)

Susan Steenstrup, MDEP (2 copies)

Susan Keydel, MDEP

Thomas Angus, MDEP (cover letter only)

Mayor Sara Hathaway, City of Pittsfield

Pittsfield Commissioner of Public Health

Thomas Hickey, Director, PEDA

Jeffery Bernstein, Bernstein, Cushner & Kimmel

Theresa Bowers, Gradient

Nancy E. Harper, MA AG

Dale Young, MA EOEA

Michael Carroll, GE (cover letter only)

Andrew Silfer, GE

Rod McLaren, GE (cover letter only)

Mark Harkness, GE

Keith Dodge, GE

James Nuss, BBL

Jim Bieke, Shea & Gardner

John Ciampa, SPECTRA

Public Information Repositories

GE Internal Repositories

Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002

General Electric Company Pittsfield, Massachusetts

August 2002



Table of Contents

Section	1.	Introduction	1-
	1.1	General	1-
	1.2	Format of Document	1-
Section	2.	Background Information	2-
	2.1	General	2-
	2.2	Hydrogeologic Framework	2-
		2.2.1 Geologic Framework	
		2.2.2 Groundwater Flow	2-
	2.3	Groundwater Quality	2
	2.4	Groundwater Quality Performance Standards	2
	2.5	Extent of NAPL	2-(
	2.6	NAPL-Related Performance Standards	2-
	2.7	Baseline Monitoring Program	
Section	3.	Spring 2002 Field Activities	3- [,]
	3.1	General	2 .
	3.2	Well Installation and Development Activities	
	3.3	Groundwater Level Measurements	
	3.4	Groundwater Sampling and Analysis	
	3.5	LNAPL Monitoring and Removal	∡-ن
	0.0	LIVALE MONITORING AND INCHIOVAL	
Section	4.	Analytical Results	4-1
	4.1	General	4-'
	4.2	Groundwater Quality Results	4-
		4.2.1 VOC Results	4-1
		4.2.2 SVOC Results	
		4.2.3 PCB Results	
		4.2.4 Pesticide/Herbicide Results	
		4.2.5 PCDD/PCDF Results	
		4.2.6 Inorganics Results	4-2
	4.3	Natural Attenuation Parameter Results	4-3
	4.4	NAPL Analytical Results	4-3
Section	5.	Assessment of Results	5-1
	5.1	General	5-1
	5.2	Evaluation of NAPL Monitoring and Recovery Activities	5-1
	5.3	Groundwater Quality	5-2
	•	5.3.1 Groundwater Results Relative to GW-2 Performance Standards	5-2
		5.3.2 Groundwater Results Relative to GW-3 Performance Standards	
		5.3.3 Comparison to Upper Concentration Limits	
	5.4	Assessment of Groundwater Analytical Results	

Section	on	6.	Proposed Program Modifications	6-1
		6.1 6.2	NAPL Monitoring and Recovery Program Modifications Baseline Groundwater Quality Monitoring Program Modifications 6.2.1 Low-Flow Sample Collection 6.2.2 Additional Well Installations and Efforts to Obtain Access 6.2.3 Response to Exceedance of MCP Method 1 GW-3 Standard	6-2 6-2 6-2
Section	on	7.	Schedule of Future Activities	7-1
		7.1 7.2 7.3	GeneralField Activities ScheduleReporting Schedule	7-1
Table	s			
2	Mor Gro	nitorin undw	g Program Summary g Well Construction Summary ater Elevation Data – January and April 2002 leasurements and Recovery – January through June 2002	

Comparison of Groundwater Analytical Results to MCP Method 1 GW-2 Standards

Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards Comparison of Groundwater Analytical Results to MCP Upper Concentration Limits

Figures

5

6

7

1 Groundwater Management Areas

Natural Attenuation Parameters

10 LNAPL Analytical Results

- 2 Site Plan
- 3 Generalized Geologic Cross Section A-A'

Field Parameter Measurements – April 2002

- 4 Generalized Geologic Cross Section B-B'
- 5 Water Table Contour Map January 2002
- 6 Water Table Contour Map April 2002
- 7 Historical Extent of NAPL
- 8 Extent of NAPL April 2002

Appendices

- A Groundwater Monitoring Well Logs
- B Field Sampling Data
- C LNAPL Monitoring and Recovery Data
- D LNAPL Analytical Data
- E Groundwater Analytical Results
- F Historical Groundwater Data
- G Data Validation Report

1. Introduction

1.1 General

On October 27, 2000, a Consent Decree (CD) executed in 1999 by the General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP), and several other government agencies was entered by the United States District Court for the District of Massachusetts. The CD governs (among other things) the performance of response actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents in soils, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts that collectively comprise the GE-Pittsfield/Housatonic River Site (the Site). For groundwater and non-aqueous-phase liquid (NAPL), the areas at and near the GE Pittsfield facility have been divided into five Groundwater Management Areas (GMAs), which are illustrated on Figure 1. These GMAs are described, together with the Performance Standards established for the response actions at and related to them in Section 2.7 of the *Statement of Work for Removal Actions Outside the River* (SOW) (Appendix E to the CD), with further details presented in Attachment H to the SOW (Groundwater/NAPL Monitoring, Assessment, and Response Programs). This report relates to the Plant Site 2 GMA, also known as and referred to herein as GMA 3.

On April 24, 2001, GE submitted a *Baseline Monitoring Program Proposal for Plant Site 2 Groundwater Management Area* (GMA 3 Baseline Monitoring Proposal), which was conditionally approved by EPA on November 21, 2001. The GMA 3 Baseline Monitoring Proposal summarized the currently available hydrogeologic information for GMA 3 and proposed groundwater and NAPL monitoring activities (as a supplement to those activities currently in place at that time) for the baseline monitoring period at this GMA. Thereafter, certain modifications were made to the GMA 3 baseline as a result of EPA approval conditions and/or findings during field reconnaissance of several wells identified for baseline monitoring. These modifications were documented in an *Addendum to the GMA 3 Baseline Monitoring Proposal*, submitted to EPA on February 20, 2002. That addendum was conditionally approved by EPA on April 18, 2002.

In spring 2002, under the baseline program, several GMA 3 monitoring wells were gauged to determine physical groundwater characteristics (i.e., gradient, flow direction, presence of NAPL) and/or sampled for analysis of PCBs and/or certain non-PCB constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenyhydrazine (Appendix IX+3). As part of the baseline program, GE is required to submit reports on a semi-annual basis to summarize the groundwater and NAPL monitoring and

recovery results and, as appropriate, propose modification to the monitoring program. This *Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002* (Spring 2002 GMA 3 Baseline Report) presents the results of groundwater sampling activities performed in April 2002, as well as certain other groundwater characterization and NAPL-related activities performed between January and June 2002.

1.2 Format of Document

The remainder of this report is presented in seven sections. Section 2 provides a summary of pertinent background information concerning GMA 3, including descriptions of hydrogeologic conditions, areas where the presence of NAPL has been documented, the applicable groundwater quality and NAPL-related Performance Standards under the CD, and a description of the baseline monitoring program (including certain access-related delays encountered by GE in initiating this program). Section 3 describes the groundwater- and NAPL-related activities performed at GMA 3 in spring 2002. Section 4 presents the analytical results obtained during the spring 2002 sampling event. Section 5 provides an evaluation of the NAPL monitoring/recovery program and an assessment of the groundwater quality results from spring 2002, including comparisons to the currently applicable groundwater quality Performance Standards and to the Upper Concentration Limits (UCLs) for groundwater. Section 6 proposes certain modifications to the current NAPL and baseline groundwater quality monitoring programs. Finally, Section 7 addresses the schedule for future field and reporting activities related to groundwater quality and NAPL presence at GMA 3, focusing in particular on the fall 2002 monitoring event.

2. Background Information

2.1 General

As discussed above, the CD and the SOW provide for the performance of groundwater- and NAPL-related Removal Actions at a number of GMAs. GMA 3 encompasses the portion of the Unkamet Brook Area (as defined in the CD and SOW) located to the east of Plastics Avenue, as shown on Figures 1 and 2. This area includes the eastern portion of GE's Pittsfield facility, which is generally bounded by Dalton Avenue to the north, Merrill Road to the south, Plastics Avenue to the west, and railroad tracks to the east. GMA 3 also contains commercial/recreational properties located between Merrill Road and the Housatonic River to the southeast of the facility. Unkamet Brook extends from northwest to southeast through the interior of this GMA, although a portion of the brook in the center of the area flows through underground culverts. The GE-owned portion of this GMA located west of Unkamet Brook is mostly paved and covered with large buildings. The GE-owned portion to the east of Unkamet Brook, as well as much of the land between Merrill Road and the Housatonic River, is undeveloped (except for the area associated with Building OP-3 and the commercial area along Merrill Road). The presence of NAPL in this area has been previously documented in prior GE reports and is limited to the vicinity of Buildings 51 and 59 along the western boundary of the GMA.

2.2 Hydrogeologic Framework

Over 250 monitoring wells and associated soil borings have been installed across GMA 3. Data collected at the time of soil boring/monitoring well installation (e.g., lithologic descriptions of the subsurface materials) and subsequent groundwater and NAPL monitoring at many of these locations have produced an extensive database of hydrogeologic information. Although variations to the hydrogeologic setting within GMA 3 exist depending on the specific location, the available data support a general assessment of subsurface conditions and groundwater hydraulics within GMA 3, as described below.

2.2.1 Geologic Framework

The overburden deposits within GMA 3 primarily consist of unconsolidated sediments of glacial origin which have been deposited in a broad bedrock valley occupied by the Housatonic River and Unkamet Brook. In addition, portions of the floodplains of the Housatonic River and Unkamet Brook also contain more recent deposits of fine-

grained sand, silt and peat. In general, four hydrogeologic units are present within GMA 3. Cross-sections depicting the general overburden stratigraphy are presented on Figures 3 and 4. These units are briefly described below:

Alluvial/Floodplain Deposits

These shallow deposits extend from ground surface to depths of over 40 feet. This unit generally consists of reworked glacial outwash and/or floodplain deposits laid down in association with recent depositional processes within the Housatonic River, and to a lesser extent, Unkamet Brook. The nature of these deposits is highly variable, particularly near the ground surface. Localized lenses of silt and fine sand are found across the area. Isolated peat deposits are also present, typically within the top 10 feet below ground surface (bgs) within marshy areas located adjacent to Unkamet Brook. Apart from these natural deposits, fill materials also make up a portion of the shallow subsurface at GMA 3. Specific fill areas include the former interior landfill, and sand and gravel layers placed beneath some of the buildings to form a base for construction.

The surficial deposits typically grade into a silt unit which interferes with a heterogeneous mixture of sand and gravel. This dense unit thins to the south and is underlain or replaced by a more permeable sand layer. The sand contains thin lenses of silt, peat, and gravel near its upper contact, but becomes increasingly homogeneous with depth.

The existing monitoring wells in the "B-Series" and other water-table wells within GMA 3 are screened within these shallow deposits, as they are the upper and primary water-bearing unit within this GMA. Groundwater is encountered under unconfined conditions at depths between less than 5 feet to over 20 feet bgs, although the depth to water at most locations is less than 10 feet bgs.

Glacial Outwash

The deeper soils consist primarily of 100 to 200 feet of fine to medium sand containing varying amounts of silt and gravel. These glacial outwash deposits vary laterally across this GMA, and with depth, in terms of density, stratification, and heterogeneity. In general, the deposits which are located in the western portion of the GMA are denser and less permeable than those to the east.

Glacial Till

The till unit underlies the outwash deposits and consists of approximately 20 to 50 feet of dense sand containing varying amounts of silt, gravel, and rock fragments. Till was encountered in limited borings (e.g., well clusters 106, 109, and 112), located in the southwestern portion of GMA 3.

Bedrock

Bedrock beneath GMA 3 consists of tan-beige calcitic quartzose, and dolomitic marble associated with the Stockbridge Formation. Bedrock is interpreted within this GMA at depths between 140 feet bgs to greater than 250 feet bgs, based on the results of prior soil borings and seismic studies which have been conducted in the area.

2.2.2 Groundwater Flow

Groundwater at GMA 3 generally flows in a southeasterly direction toward the Housatonic River, usually in concert with the existing topography. However, localized variations in the flow direction exist due to fill materials used beneath building foundations in the GE Plastics area and the presence of Unkamet Brook. In addition, NAPL recovery activities at recovery well 51-21 have created a small depression in the water table near that well. The horizontal hydraulic gradients are somewhat variable within GMA 3, but generally decrease toward the Housatonic River, corresponding to a flattening in the ground surface topography.

Several well pairs or closely-spaced shallow and deep well clusters have been installed at GMA 3. The approximate depth of a well in a cluster can be identified by the letter contained in the well name (e.g., cluster 39 contains wells 39A, 39B, 39D, and 39E) which represents the well series, specifically:

- A-series wells are generally screened approximately 45– to 50-feet below ground surface (bgs);
- B-series wells are generally screened at or near the water table, approximately 15– to 25-feet bgs;
- C-series wells are generally screened approximately 95– to 100-feet bgs;
- D-series wells are generally screened approximately 70– to 75-feet bgs; and
- E-series wells are generally screened at depths greater than 150 feet bgs.

Most of the GMA 3 well clusters consist of an A-series well paired with a B-series well, and sometimes one or more of the deeper series wells. Based on prior monitoring data from the well clusters, the vertical component of the

hydraulic gradient is variable. In general, groundwater flows downward in the northern part of the GMA, moves laterally across the central areas, and rises to the south, near the Housatonic River.

2.3 Groundwater Quality

Groundwater analytical data concerning GMA 3 have been previously summarized in several reports prepared under the MCP and RCRA Corrective Action Programs that were in place at the GE facility (and related areas) prior to entry of the CD. The primary document (excluding routine monitoring reports) which provides the results of past groundwater investigations for the areas within or related to GMA 3 is the MCP Interim Phase II Report and Current Assessment Summary for Unkamet Brook Area/USEPA Area 1 (BBL, January 1995). The investigation activities described in that report, as well as recent activities associated with the semi-annual groundwater sampling program, have produced a substantial amount of groundwater analytical data for GMA 3, involving analytical data from approximately 750 groundwater samples collected from over 200 wells since 1979. The results of the prior groundwater analyses performed at GMA 3 were summarized in the GMA 3 Baseline Monitoring Proposal. Although a variety of constituents, including PCBs, have been detected in GMA 3 groundwater samples, volatile organic compounds (VOCs) are the primary constituent group of interest in this area. A VOC plume, consisting primarily of benzene, chlorobenzene, and trichloroethene, has been identified extending to the south-southeast from the approximate location of the former waste stabilization basin.

2.4 Groundwater Quality Performance Standards

The Performance Standards which are applicable to response actions for groundwater at GMA 3 are set forth in Section 2.7 and Attachment H (Section 4.1) of the SOW. In general, the Performance Standards for groundwater quality are based on the groundwater classification categories designated in the Massachusetts Contingency Plan (MCP) (310 CMR 40.0932). The MCP identifies three potential groundwater categories that may be applicable to a given site. One of these, GW-1 groundwater, applies to groundwater that is a current or potential source of potable drinking water. None of the groundwater at any of the GMAs at the Site is classified as GW-1. However, the remaining MCP groundwater categories are applicable to GMA 3 and are described below:

• GW-2 groundwater is defined as groundwater that is a potential source of vapors to the indoor air of buildings. Groundwater is classified as GW-2 if it is located within 30 feet of an existing occupied building and has an average annual depth to groundwater of 15 feet or less. Under the MCP, volatile constituents present within GW-

2 groundwater represent a potential source of organic vapors to the indoor air of the overlying and nearby occupied structures.

• GW-3 groundwater is defined as groundwater that discharges to surface water. By MCP definition, all groundwater at a site is classified as GW-3 since it is considered to be ultimately discharged to surface water.

The CD and the SOW allow for the establishment of standards for GW-2 and GW-3 groundwater at the GMAs through use of one of three methods, as generally described in the MCP. The first, known as Method 1, consists of the application of pre-established numerical "Method 1" standards set forth in the MCP for both GW-2 and GW-3 groundwater (310 CMR 40.0974). These "default" standards have been developed to be conservative and will serve as the initial basis for evaluating groundwater at GMA 3. For constituents for which Method 1 standards do not exist, the MCP provides procedures, known as Method 2, for developing such standards ("Method 2 standards") for both GW-2 (310 CMR 40.0983(2)) and GW-3 (310 CMR 40.0983(4)) groundwater. For such constituents that are detected in groundwater during the baseline monitoring program, Attachment H to the SOW states that, in the Baseline Monitoring Program Final Report, GE must propose to develop Method 2 standards using these MCP procedures or alternate procedures approved by EPA, or provide a rationale for why such standards need not be developed. For constituents whose concentrations exceed the applicable Method 1 (or Method 2) standards, GE may develop and propose to EPA alternative GW-2 and/or GW-3 standards based on a site-specific risk assessment. This procedure is known as Method 3 in the MCP. Upon EPA approval, these alternative risk-based GW-2 and/or GW-3 standards may be used in lieu of the Method 1 (or Method 2) standards. Of course, whichever method is used to establish such groundwater standards, GW-2 standards will be applied to GW-2 groundwater and GW-3 standards will be applied to GW-3 groundwater.

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 3 consist of the following:

1. At monitoring wells designated as compliance points to assess GW-2 groundwater (i.e., groundwater located at an average depth of 15 feet or less from the ground surface and within 30 feet of an existing occupied building), groundwater quality shall achieve any of the following: (a) the Method 1 GW-2 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-2 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards); or (b) alternative risk-based GW-2 standards developed by GE and approved by EPA as protective against unacceptable risks due to volatilization and transport of volatile chemicals from groundwater to the indoor air of nearby occupied

buildings; or (c) a condition, based on a demonstration approved by EPA, in which constituents in the groundwater do not pose an unacceptable risk to occupants of nearby occupied buildings via volatilization and transport to the indoor air of such buildings.

2. Groundwater quality shall ultimately achieve the following standards at the perimeter monitoring wells designated as compliance points for GW-3 standards: (a) the Method 1 GW-3 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-3 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards); or (b) alternative risk-based GW-3 standards proposed by GE and approved by EPA as protective against unacceptable risks in surface water due to potential migration of constituents in groundwater.

These Performance Standards are to be applied to the results of the individual monitoring wells included in the monitoring program. Several monitoring wells have been selected as the compliance points for attainment of the GW-2 and/or GW-3 Performance Standards identified above. In addition, at GMA 3, a number of wells are designated as natural attenuation monitoring wells, which are used to evaluate natural attenuation mechanisms in groundwater. The GW-2, GW-3, and natural attenuation monitoring wells at this GMA were identified in the GMA 3 Baseline Monitoring Proposal Addendum.

2.5 Extent of NAPL

The occurrence of NAPL at this GMA was initially investigated in 1986, following the observation of oil in an excavation completed in conjunction with the renovation of Building 59. Subsequent investigations found that the NAPL was concentrated in coarse gravel that was assumed to be fill material for the foundation of Building 59 and may also be the result of leakage from underground storage tanks (USTs) located on the northeast side of Building 51. Those previous investigations identified the NAPL as a light non-aqueous phase liquid (LNAPL) in the soil at and above the groundwater table interface. Dense non-aqueous phase liquid (DNAPL) has not been encountered at any of the monitoring wells within GMA 3, although NAPL was observed at the base of well UB-MW-10 on February 28, 2002. GE notified EPA and MDEP of this observation on March 1, 2002 and planned to return to the well to collect a NAPL sample for physical characteristics testing to determine whether it was LNAPL or DNAPL. However, the well was found to be completely dry upon return. A thin layer of LNAPL was observed in this well during the next routine monitoring event in March 2002. GE concluded that the prior NAPL observation was an accumulation of LNAPL left in soft sediments at the base of the well following a drop in groundwater levels to below the well. Since LNAPL

has been known to periodically enter well UB-MW-10, no sample was collected for confirmatory physical characteristics analyses.

Distribution of the LNAPL within the subsurface has remained confined to the vicinity of Buildings 51 and 59, due primarily to: (a) the generally low hydraulic gradients in this area; (b) the contrast in grain size between the coarse fill materials near and beneath the buildings and surrounding native soils; and (c) the ongoing LNAPL recovery efforts (both automated and manual) conducted by GE. A discussion of the current extent of LNAPL at GMA 3 relative to the historical extent of LNAPL at this GMA is included in Section 3.5 below.

2.6 NAPL-Related Performance Standards

Under the CD and SOW, GE is required to perform monitoring, recovery, assessment, and other response activities related to NAPL until the applicable NAPL-related Performance Standards are ultimately achieved. The NAPL-related Performance Standards are set forth in Section 2.7 and Attachment H (Section 4.0) of the SOW. They consist of the following:

- 1. Containment, defined as no discharge of NAPL to surface waters and/or sediments, which shall include no sheens on surface water and no bank seeps of NAPL.
- 2. For areas near surface waters in which there is no physical containment barrier between the wells and the surface water, elimination of measurable NAPL (i.e., detectable with an oil/water interface probe) in wells near the surface water bank that could potentially discharge NAPL into the surface water, in order to prevent such discharge and assist in achieving groundwater quality Performance Standards.
- 3. For areas adjacent to physical containment barriers, prevention of any measurable LNAPL migration around the ends of the physical containment barriers.
- 4. For NAPL areas not located adjacent to surface waters, reduction in the amount of measurable NAPL to levels which eliminate the potential for NAPL migration toward surface water discharge areas or beyond GMA boundaries, and which assist in achieving groundwater quality Performance Standards.
- 5. For NAPL detected in wells designed to assess GW-2 groundwater (i.e., located at average depths of 15 feet or less from the ground surface and within a horizontal distance of 30 feet from an existing occupied building), a

demonstration that constituents in the NAPL do not pose an unacceptable risk to occupants of such building via volatilization and transport to the indoor air of such building. Such demonstration may include assessment activities such as: NAPL sampling, soil gas sampling, desk-top modeling of potential volatilization of chemicals from the NAPL (or associated groundwater) to the indoor air of the nearby occupied buildings, or sampling of the indoor air of such buildings. If necessary, GE shall propose corrective actions, including, but not limited to, containment, recovery, or treatment of NAPL and impacted groundwater.

2.7 Baseline Monitoring Program

The baseline monitoring program at GMA 3 involves numerous wells monitored for various purposes. These wells were identified in GE's Baseline Monitoring Proposal Addendum, as conditionally approved by EPA in its letter of April 18, 2002. As part of this program, 38 wells are to be sampled semi-annually for groundwater quality. Of these, 10 wells are to be monitored as GW-2 wells, 13 as GW-3 perimeter wells, one as a GW-3 source area sentinel well, and 22 as natural attenuation monitoring wells (note that some wells are to be monitored under more than one category). In addition, those 38 wells plus 24 additional wells are to be monitored quarterly (or, in some cases, more frequently) for groundwater elevation and the presence/thickness of LNAPL (as listed in Table 3 of the Baseline Monitoring Proposal Addendum). The monitoring wells in the baseline program are listed in Table 1, which also identifies the usage (i.e., type of sampling or monitoring) for each well. The well locations are shown on Figure 2.

Initiation of this baseline monitoring program required the installation of 14 new or replacement wells. As discussed below in Section 3.2, seven of these wells were installed in February 2002, but the other seven (39B-R, GMA3-1, GMA3-3, GMA3-5, GMA3-7, GMA3-8, and GMA3-9), all of which are groundwater quality monitoring wells, have not been installed because final approval of those well locations was not received prior to the April 2002 sampling event and/or due to failure to obtain access to the well areas or due to physical problems with well installation. In addition, GE has not to date obtained access permission from the property owners for the sampling of 15 existing groundwater quality monitoring wells in the program located on non-GE-owned properties between the railroad tracks and the Housatonic River. The wells that were not installed or sampled for the spring 2002 sampling event are identified in Table 1. As a result, only 16 groundwater quality monitoring wells were sampled during this event, as identified in Table 1 and discussed in Section 3.4.

GE plans to install four of the not-yet-installed wells (39B-R, GMA3-7, GMA3-8, and GMA3-9) within the next month or so. As to the other three, one (GMA3-5) is located on property to which GE has not received access permission. The locations of two other proposed wells (GMA3-1 and GMA3-3) were found to be in a marshy area

inaccessible to drilling and sampling equipment. EPA has agreed to defer the installation of well GMA3-1 until after the completion of future remediation activities (i.e., soil/sediment removal and the re-routing of Unkamet Brook) in this area. EPA has also verbally approved a modified location for well GMA3-3 near the access drive to the parking area along Dalton Avenue. That well will likewise be installed within the next month or so.

In addition, GE will continue its efforts to obtain access to the properties between the railroad tracks and the river from the owners of those properties (CSX Corporation, the U.S. Department of the Navy, and the Massachusetts Department of Education), so as to allow installation and sampling of new well GMA3-5 and sampling of the 15 existing wells in the program that are located in this area. However, certain of these property owners have adopted lengthy application processes for obtaining access agreements. As a result, it seems unlikely at this time that GE will be able to obtain the necessary access agreements prior to the currently scheduled October 2002 sampling event. As previously discussed with EPA, if access cannot be obtained to the areas of these wells by September 30, 2002, GE proposes to omit the fall 2002 groundwater sampling round, and subsequently to conduct a minimum of two years of semi-annual baseline groundwater quality sampling after the necessary access has been obtained. In the meantime, as discussed in Sections 6.2 and 7.2, GE would continue with the routine NAPL monitoring and recovery activities (at the wells included in the NAPL monitoring program) and with quarterly groundwater elevation monitoring, and would conduct limited groundwater sampling at one well which showed an exceedance of the GW-3 standards.

3. Spring 2002 Field Activities

3.1 General

The activities conducted as part of the spring 2002 semi-annual groundwater monitoring program primarily involved measurement of groundwater levels and the collection of groundwater samples from select monitoring wells within GMA 3. Monitoring and recovery of LNAPL (if present) were also routinely performed at the monitoring wells which are included in the NAPL monitoring program. All wells that were gauged for groundwater elevations, sampled for groundwater quality, and/or monitored for LNAPL during spring 2002 are identified in Table 1, and a site plan showing the groundwater monitoring/sampling locations described in this report is presented on Figure 2. This section discusses the field procedures used to measure site groundwater and LNAPL levels and to collect groundwater samples, as well as the methods used to analyze the groundwater samples. All activities were performed in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP).

3.2 Well Installation and Development Activities

GE installed three new monitoring wells (GMA 3-2, GMA3-4, and GMA3-6) and four replacement wells (16B-R, 51-16R, 59-3R, and 78B-R) in February 2002. The three new wells and replacement wells 16B-R and 78B-R were installed for use in the baseline groundwater quality monitoring program, while replacement wells 51-16R and 59-3R were installed to replace NAPL monitoring wells that were found to be irreparably damaged. The locations of these wells are shown on Figure 2. Table 2 shows the survey data and well construction details for these new and replacement wells, along with the existing wells in the baseline monitoring program. Monitoring well logs for the new and replacement wells are presented in Appendix A.

Following installation, the new monitoring wells were developed to remove fine materials (e.g., fine sand, silt, clay) that may have accumulated in the filter pack and to ensure that the well screen was transmitting groundwater representative of the surrounding formation. In addition, all existing wells included in the sampling program were redeveloped in February 2002 to remove sediment accumulations from within the well casings. Development was performed by surging the saturated portion of the well screen with a surge block and removing groundwater with either a submersible or peristaltic pump, depending on the well diameter.

As noted above, GE has yet to install seven wells (39B-R, GMA3-1, GMA3-3, GMA3-5, GMA3-7, GMA3-8, and GMA3-9) that were approved for inclusion in the baseline monitoring program. Final approval of the locations of these wells was not received prior to the April 2002 sampling event. Moreover, as described above, one of these proposed wells (GMA3-5) is located on one of the properties to which GE has not yet obtained an access agreement, while two others (GMA3-1 and GMA3-3) are located in a marshy area inaccessible to drilling and sampling equipment. GE's plans regarding installation of these seven wells were mentioned above and are also discussed in Sections 6.2.2 and 7.2.

3.3 Groundwater Level Measurements

Winter 2001/2002 and spring 2002 quarterly groundwater elevation monitoring was performed in January 2002 and April 2002, respectively. This activity involved the collection of groundwater level data at the locations listed in Table 3. Groundwater levels and NAPL thicknesses (where NAPL is present) were measured in accordance with the procedures specified in GE's approved FSP/QAPP. The January and April 2002 groundwater elevation data are presented in Table 3 and were used to prepare winter and spring groundwater elevation contour maps. These maps are provided as Figures 5 and 6, respectively. Consistent with prior data, groundwater was found to generally flow toward the Housatonic River, with some localized variations in the vicinity of Unkamet Brook and in the area of recovery well 51-21, which contains an automated skimmer for LNAPL recovery. LNAPL monitoring and recovery data for spring 2002 are summarized in Table 4 and Appendix C.

3.4 Groundwater Sampling and Analysis

The spring 2002 baseline sampling event was performed between April 23 and 29, 2002. Under the approved baseline monitoring program, samples were scheduled to be collected from 38 monitoring wells; however, as described above, due to property access issues and/or the timing of final EPA approval of the locations of certain new wells, samples were collected from only 16 wells (2A, 6B, 16A, 16B-R, 16C, 16E, 39D, 39E, 43A, 43B, 51-14, 54B, 78B-R, GMA3-2, GMA3-4, and GMA3-6), all of which are located to the north of the railroad that divides the GMA. Low-flow sampling techniques using either a bladder, submersible, or peristaltic pump were generally utilized for the purging and collection of groundwater samples during this sampling event. Samples collected for VOC analysis were sampled with a bailer in wells that were purged with a peristaltic pump (as discussed in Section 6.2.1, GE is proposing to eliminate this step for future sampling events). Each monitoring well was purged until field parameters (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) stabilized or the well was pumped dry. The field parameters were measured in combination with the sampling

activities at all monitoring wells sampled. The data are summarized in Table 5 and the field sampling records are contained in Appendix B. A general summary of the spring 2002 field measurement results during the monitoring event is provided below:

PARAMETER	UNITS	RANGE
Turbidity	Nephelometric turbidity units	1.0 – 987
рН	pH units	6.33 - 8.78
Specific Conductivity	Millisiemens per centimeter	0.137 - 7.210
Oxidation-Reduction Potential	Millivolts	-2 07 – 88
Dissolved Oxygen	Milligrams per liter	0.00 - 11.11
Temperature	Degrees Celsius	6.30 - 14.10

Only one well (54B) did not achieve the sample turbidity goal of 50 nephelometric turbidity units (NTU) or less in spring 2002. This well is located to the east of Unkamet Brook in a marshy area. Although well 54B was purged at an extremely low pump setting (approximately 50 milliliters per minute), organic media (e.g., peat-like/organic silt) continued to enter the well resulting in a sample with a high turbidity (987 NTU). GE will continue to attempt to collect lower turbidity samples from this well during future sampling events using low-flow purging and sampling techniques, but the nature of the formation in this area may preclude achievement of the 50 NTU goal.

The collected groundwater samples were submitted to CT&E Environmental Services of Charleston, West Virginia, for laboratory analysis. For all groundwater samples, except those from the wells that were monitored solely for compliance with the GW-2 standards or the natural attenuation parameters (discussed below), the samples were submitted for analysis of the following parameters using the associated EPA methods:

PARAMETER	USEPA METHOD
Volatile Organic Compounds (VOCs)	8260B
Semi-Volatile Organic Compounds (SVOCs)	8270C
Filtered and Unfiltered Polychlorinated Biphenyls (PCBs)	8082
Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans (PCDDs/PCDFs)	8290
Pesticides and Herbicides	8080 and 8151
Filtered and Unfiltered Metals	6010B, 7000A, and 7470A
Cyanide	9014
Sulfide	9034

For groundwater samples collected from wells that are monitored solely for compliance with the GW-2 standards, the samples were submitted for analysis of the VOCs listed in GE's FSP/QAPP, as well as five select compounds listed as SVOCs in the FSP/QAPP (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene), using EPA Method 8260B, in accordance with a letter from GE to EPA dated February 20, 2002.

For groundwater samples collected from wells that are sampled for natural attenuation parameters, the samples were submitted for analysis of VOCs using Method 8260B (these samples were also inadvertently analyzed for the five select SVOCs applicable to the GW-2 wells as identified above) and for the following additional parameters using the associated EPA Methods.

PARAMETER	USEPA METHOD
Alkalinity (total)	310
Chloride	325
Dissolved Organic Carbon	360
Ethane, Ethene, Methane	8319
Iron	6000
Nitrate Nitrogen	353.1
Nitrite Nitrogen	354.1
Sulfate (turbidimetric)	375

Following receipt of the analytical data from the laboratory, the data were validated in accordance with the FSP/QAPP. The results of this data validation process are presented in Appendix G. The results of the above analyses, which also incorporate the validation procedure, are discussed in Section 4 below.

3.5 LNAPL Monitoring and Removal

The LNAPL monitoring and recovery activities performed by GE within GMA 3 in spring 2002 were as follows:

- Routine measurement of groundwater elevations and NAPL thickness (if present);
- Manual removal of LNAPL if measured at a thickness equal to or exceeding 0.5 feet; and
- Operation of the automated skimmer system at recovery well 51-21.

Routine LNAPL monitoring was conducted at the monitoring wells listed in Table 4 on a quarterly, monthly, and/or weekly basis (as specified in Table 3 of the Baseline Monitoring Program Addendum). Table 4 also summarizes the

spring 2002 LNAPL removal data on a monthly basis, and Table C-1 (Appendix C) presents a summary of all of the spring 2002 LNAPL measurements and removal quantities (when performed) for each well at GMA 3. Approximately 150 gallons of LNAPL were recovered between January and June 2002 at GMA 3. Of this total, approximately 144 gallons were removed by the automated skimmer system at well 51-21, and the remaining six gallons were manually recovered during routine monitoring events. Since 1997, over 500 gallons of LNAPL have been removed from GMA 3 as part of GE's NAPL monitoring and recovery program.

Figure 7 depicts the historical maximum extent of LNAPL observed at GMA 3. That figure represents a compilation of past investigations and shows the maximum lateral extent of LNAPL that has been observed and documented in prior GE reports, and is not indicative of current conditions. Figure 8 indicates the extent of LNAPL observed in April 2002. As shown on those two figures, the lateral extent of LNAPL has decreased since the onset of the periodic LNAPL monitoring and recovery activities being conducted in this area. DNAPL was not encountered in any of the monitoring wells gauged in during spring 2002.

In addition to the routine NAPL monitoring and recovery activities, on August 19, 2002, GE collected NAPL samples from three wells (51-15, 51-19, and 59-3R) for analysis of VOCs, SVOCs, PCBs, and physical characteristics (i.e., specific gravity, viscosity, and interfacial tension). The results of these analyses are discussed in Section 4.4.

4. Analytical Results

4.1 General

This section presents a description of the spring 2002 groundwater analytical results. A summary of the full spring 2002 data set is provided in Appendix E, while the data validation report on these results is presented in Appendix G. (The data presented in Appendix E also incorporate the results of the data validation process.) Tables 6, 7, and 8 summarize the results for detected constituents in groundwater relative to the MCP Method 1 GW-2 and GW-3 standards and the MCP UCLs for groundwater, respectively. An assessment of these results relative to those groundwater quality standards and UCLs is provided in Section 5. Finally, Table 9 provides a summary of the detected natural attenuation parameters, and Table 10 summarizes the results of the recent analyses of NAPL samples.

4.2 Groundwater Quality Results

4.2.1 VOC Results

Groundwater samples from all 16 monitoring wells were analyzed for VOCs during the spring 2002 sampling event. The VOC analytical results for all constituents analyzed are summarized in Appendix E. No VOCs were detected in six of the groundwater samples, while 13 individual VOCs were observed in one or more of the remaining ten samples. The most commonly observed VOCs were benzene (detected in five groundwater samples) and chlorobenzene (detected in seven groundwater samples). Total VOC concentrations ranged from non-detect (in six samples) to 24.0 parts per million (ppm) in natural attenuation monitoring well 16A.

4.2.2 SVOC Results

Groundwater samples from four monitoring wells were analyzed for all SVOCs during the spring 2002 sampling event. In addition, samples from 12 other wells (four GW-2 monitoring wells and eight natural attenuation wells) were analyzed for five select SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene) using EPA Method 8260B. The SVOC analytical results for all constituents analyzed are summarized in Appendix E. Nine individual SVOC constituents were observed in the sample from well 78B-R, while no SVOCs were detected in the other three groundwater samples that were analyzed for the entire Appendix IX SVOC list, plus benzidine and 1,2-diphenyhydrazine. In regard to the samples that were analyzed only

in Appendix E. Nine individual inorganic constituents were detected in one or more of the unfiltered samples, while eight inorganic constituents were detected in one or more filtered samples. The most commonly observed inorganics were barium (detected in three unfiltered and two filtered samples), arsenic (detected in two unfiltered samples, but no filtered samples), and lead (detected in two unfiltered samples, but no filtered samples).

4.3 Natural Attenuation Parameter Results

Groundwater samples from eight monitoring wells were analyzed for natural attenuation parameters. The analytical results for these parameters are provided in Table 9 and Appendix E. Provided below is a summary of the natural attenuation parameter results.

Parameter	Number of Detects	Result (ppm)
Alkalinity	8	24 – 570
Chloride	8	1.8 – 1,700
Dissolved Organic Carbon	8	2.1 – 59
Ethane	1	ND - 0.017
Ethene	2	ND - 0.15
Iron	2	ND – 1.3
Methane	7	0.023 - 12
Nitrate (Nitrogen)	8	0.014 - 1.0
Nitrite (Nitrogen)	1	ND - 0.003
Sulfate (turbidimetric)	8	1.3 – 42

GE will track changes in concentrations of natural attenuation parameters during the course of the baseline monitoring program, but has not included an assessment of these results in this baseline interim summary report. In the future, GE may prepare a separate report containing a detailed assessment of observed natural attenuation processes at GMA 3.

4.4 NAPL Analytical Results

LNAPL samples from three monitoring wells (51-15, 51-19, and 59-3R, located in the central-northern, eastern, and southwestern portions of the GMA 3 LNAPL area, respectively) were analyzed for VOCs, SVOCs, PCBs, and

physical characteristics (i.e., specific gravity, viscosity, and interfacial tension). The LNAPL analytical results are summarized in Table 10 and the complete data set is included as Appendix D.

No VOCs were detected in the LNAPL sample from well 59-3R, while two individual VOCs (ethylbenzene and total xylenes) were observed in the remaining two samples. Total VOC concentrations ranged from non-detect (in the well 59-3R sample) to 177 ppm in well 51-15. The detected ethylbenzene concentrations ranged from 29 ppm in well 51-19 to 110 ppm in well 51-15, while total xylenes were detected at concentrations of 87 ppm in well 51-19 and 67 ppm in well 51-15.

Nine individual SVOC constituents were observed in the LNAPL samples, including six polynuclear aromatic hydrocarbons (PAHs) -- benzoic acid, 1,4-dichlorobenzene, and 1,2,4-trichlorobenzene. No PAHs were detected in the sample from well 59-3R, where only one SVOC (1,4-dichlorobenzene) was observed. Total SVOC concentrations ranged from an estimated concentration of 31 ppm in well 59-3R to 10,000 ppm in well 51-15. The SVOCs detected in well 51-19 were similar (i.e., primarily PAHs) to those observed in well 51-15, although the concentrations were approximately an order of magnitude less in well 51-19 (1,542 ppm total SVOCs)

PCBs were detected in each of the three LNAPL samples. Total PCB concentrations ranged from 25.8 ppm (in the sample from well 51-15) to 100 ppm (in the well 51-19 sample).

The specific gravity of the LNAPL samples was measured between 0.8957 and 0.9583 at 60 degrees Fahrenheit, and the LNAPL viscosity was between 2.338 and 3.018 millimeters²/second at 100 degrees Celsius. The sample from well 51-15 exhibited the greatest specific gravity and was the least viscous of the three samples. The physical characteristics of the other two NAPL samples were similar to each other. The interfacial tension results did not vary significantly between the three LNAPL samples; values ranged from 260.7 millinewtons/meter (mN/m) in well 59-3R to 289.0 mN/m in well 51-15.

5. Assessment of Results

5.1 General

This report constitutes the first interim groundwater quality/NAPL recovery monitoring report submitted since commencement of the GMA 3 baseline groundwater monitoring program. Conclusions developed herein are based on the laboratory results and field measurements obtained during the spring 2002 groundwater sampling event, supplemented with historical groundwater analytical data when available.

5.2 Evaluation of NAPL Monitoring and Recovery Activities

This section discusses the effectiveness of the existing NAPL monitoring and recovery program at GMA 3 and proposes certain modifications to optimize operations in the future. In general, the ongoing NAPL recovery operations at GMA 3 have proven effective in removing LNAPL from the subsurface and in preventing LNAPL migration into the Housatonic River.

The historical maximum extent of measurable LNAPL at GMA 3 is illustrated on Figure 7, while the extent of LNAPL observed in April 2002 is shown on Figure 8. These figures show a decrease in the extent of measurable LNAPL observed in spring 2002 compared to the prior maximum extent. This reduction may, at least in part, be attributable to GE's NAPL recovery program, which includes an automatic skimmer system in well 51-21 and routine manual recovery of LNAPL at surrounding locations. However, it may also reflect the fact that NAPL presence tends to fluctuate at certain monitoring wells within the known LNAPL areas. Continued monitoring will be performed to further assess the extent of LNAPL in this area.

Overall, this NAPL monitoring and recovery program appears to be effective in preventing the migration of NAPL and only minor enhancements are suggested, primarily to make the NAPL monitoring program in this area consistent with that conducted at GMA 1 (i.e., performance of a semi-annual NAPL bailing round and adoption of a uniform NAPL removal criterion). These modifications are discussed in detail in Section 6.1.

5.3 Groundwater Quality

The analytical results from the spring 2002 groundwater sampling event were compared to the applicable MCP Method 1 GW-2 and GW-3 standards and to the UCLs for groundwater. These comparisons are summarized in Tables 6, 7, and 8 (for the GW-2 standards, GW-3 standards, and UCLs, respectively) and are discussed in the following subsections.

5.3.1 Groundwater Results Relative to GW-2 Performance Standards

Groundwater samples were scheduled to be collected from 10 GW-2 monitoring wells (16B-R, 51-14, GMA3-2, GMA3-4, GMA3-5, GMA3-6, GMA3-7, GMA3-8, GMA3-9, and OBG-2); however, only five of these monitoring wells (16B-R, 51-14, GMA3-2, GMA3-4, and GMA3-6) were sampled in spring 2002 due to access-related issues and the timing of EPA approval to install new wells relative to the sampling schedule. The spring 2002 groundwater analytical results for all detected constituents subject to MCP Method 1 GW-2 standards and a comparison of those results with the applicable MCP Method 1 GW-2 standards are presented in Table 6. As shown in Table 6, none of the spring 2002 sample results from the GW-2 monitoring wells exceeded the GW-2 standards. In addition, none of the GW-2 wells exhibited total VOC concentrations above 5 ppm (the level specified in the SOW as a notification level for GW-2 wells and as a trigger level for the proposal of interim response actions).

5.3.2 Groundwater Results Relative to GW-3 Performance Standards

A total of 14 monitoring wells at GMA 3 (6B, 54B, 78B-R, 82B, 89, 90, 95, 111, 114, GMA3-1, GMA3-3, GMA3-5, GMA3-6, and GMA3-7) are designated as GW-3 monitoring wells; however, only four of these monitoring wells (6B, 54B, 78B-R, and GMA3-6) were sampled in spring 2002 due to access and scheduling issues. The spring 2002 groundwater analytical results for all detected constituents and a comparison of those results with the applicable MCP Method 1 GW-3 standards are presented in Table 7.

In comparing the baseline monitoring results for PCBs and inorganics to the Method 1 GW-3 standards, GE has used the results from the filtered samples, with the exception of cyanide analyses for which filtered samples were not collected. EPA has previously agreed to this approach in a letter to GE dated January 2, 2002. Accordingly, the unfiltered sample results for these constituents were used only for comparison to the MCP UCLs.

The comparisons set forth in Table 7 indicate that the only exceedance of the Method 1 GW-3 standards was for chlorobenzene in one well. Specifically, chlorobenzene was detected in the sample from GW-3 perimeter well 78B-R at a concentration of 2.5 ppm, which exceeds the Method 1 GW-3 standard of 0.5 ppm. Well 78B-R is located to the south of the former interior landfill and adjacent to Unkamet Brook

The SOW requires that interim response actions must be proposed for baseline sampling results which exceed Method 1 GW-3 standards at downgradient perimeter monitoring wells, in which: (a) such an exceedence had not previously been detected, or (b) there was a previous exceedance of the Method 1 GW-3 standard and the groundwater concentration is greater than or equal to 100 times the GW-3 standard (if the exceedance was not previously addressed). These interim response actions may include: (1) further assessment activities, such as resampling, increasing the sampling frequency to quarterly, additional well installation, and/or continuing the baseline monitoring program; (2) active response actions; and/or (3) the conduct of a site-specific risk evaluation and proposal of alternative risk-based GW-3 Performance Standards.

For well 78B-R, where the Method 1 GW-3 standard for chlorobenzene was exceeded, no previous VOC data are available. However, this well is located in the vicinity of a known chlorobenzene plume. GE's proposed response action to address this exceedance is to continue sampling this well, as discussed further in Section 6.2.3.

5.3.3 Comparison to Upper Concentration Limits

In addition to comparing the spring 2002 groundwater analytical results with applicable MCP Method 1 GW-2 and GW-3 standards, all detected constituents have also been compared with the groundwater UCLs specified in the MCP (310 CMR 40.0996(7)), as presented in Table 8. The results shown on Table 8 indicate that two constituents (chlorobenzene and unfiltered PCBs) exceeded their applicable UCLs. The UCL for chlorobenzene is 10 ppm, which was exceeded at natural attenuation well 16A at a concentration of 16 ppm. For unfiltered PCBs, the UCL is 0.005 ppm, which was exceeded at well 78B-R (concentration of 0.0073 ppm).

The screened interval of well 16A is positioned approximately 45 to 50 feet bgs. The analytical results for chlorobenzene were reviewed from nearby shallow wells, including wells 6B, 16B-R, and 51-14, to assess whether the elevated chlorobenzene levels may be present nearer to the surface in this area. Those results indicate that the chlorobenzene present in well 16A is associated with the mid-level groundwater unit, which is consistent with prior investigations which indicate that the VOC plume is primarily present in the A-series wells to the south of the former

Waste Stabilization Basin. As illustrated in Appendix F, the concentrations of VOCs have decreased significantly from their historical high levels.

For well 78B-R, PCB results from surrounding wells 6B, 54B, and GMA3-6 were reviewed to identify if the presence of PCBs is widespread within the upper groundwater unit or confined to the area near well 78B-R. Although trace amounts of PCBs (0.000078 ppm) were detected in well 54B, none were detected in wells 6B or GMA3-6.

5.4 Assessment of Groundwater Analytical Results

Graphs illustrating historical concentrations of total VOCs (and, in some cases, benzene and chlorobenzene) and filtered and unfiltered PCBs, along with the spring 2002 concentrations, are provided in Appendix F for all wells sampled in spring 2002 that have been previously sampled and analyzed for those constituents.

Since the spring 2002 monitoring event constitutes the initial sampling event for the GMA 3 baseline monitoring program, the amount of data available to assess any trends in constituent concentrations is limited in some wells. Furthermore, the data available in spring 2002 were limited by the fact that GE was unable to sample the majority of the downgradient locations due to delays in obtaining access agreements. However, based on a review of the Concentration vs. Time graphs presented in Appendix F, it appears that concentrations of total VOCs (as well as benzene and chlorobenzene) and unfiltered and filtered PCBs have decreased in most of the wells where prior data are available.

6. Proposed Program Modifications

This section proposes modifications to the NAPL and baseline groundwater quality monitoring programs at GMA 3.

6.1 NAPL Monitoring and Recovery Program Modifications

The NAPL monitoring and recovery program that is in place at GMA 3 appears to be effective in identifying and reducing the extent of NAPL in the area of Buildings 51 and 59. GE plans to continue the existing program (i.e., operation of the automated system and routine monitoring and manual removal at other monitoring wells); however, certain minor modifications are proposed to make the GMA 3 NAPL monitoring program procedures consistent with those employed at other NAPL areas at the Site, specifically those within GMA 1.

GE proposes to modify the criteria for conducting NAPL removal. Currently, NAPL at GMA 3 is manually removed when the measured thickness is 0.5 feet or greater. The proposed modification is to apply the criteria that have been proposed for the GMA 1 NAPL areas – i.e., to manually remove LNAPL when the measured thickness is 0.25 feet or greater and to perform DNAPL removal (if it is ever encountered at this GMA) when the measured thickness is 0.5 feet or greater. These criteria will be applied whenever NAPL is encountered during a routine monitoring event at GMA 3, except as specified below in connection with GE's plan for a semi-annual NAPL bailing/monitoring round.

In addition, GE plans to incorporate a semi-annual NAPL bailing/monitoring round at GMA 3, similar to that currently being conducted at GMA 1. Specifically, approximately one week prior to the spring and fall quarterly groundwater elevation monitoring events, GE will remove all NAPL present in any GMA 3 well, regardless of thickness. Those wells will be monitored again as part of the quarterly monitoring event, and the data obtained will be utilized to estimate the current thickness of LNAPL in the area. The purpose for performing the bailing and monitoring round is to confirm that the NAPL present in a well is also present in the surrounding formation, and is not remnant oil which may have accumulated in the well for an indeterminate amount of time if the thickness was below the criterion for manual removal. As an added benefit, this uniform removal procedure will provide an equal basis for comparison with future NAPL monitoring data.

If NAPL is observed during the spring or fall quarterly monitoring event in a well that was not addressed during the bailing round, GE will remove the NAPL (regardless of thickness) and return to that well during the following week

to gauge the NAPL thickness and groundwater elevation. GE will use the information obtained during that supplemental monitoring round in its assessment of the extent of NAPL at GMA 3.

6.2 Baseline Groundwater Quality Monitoring Program Modifications

6.2.1 Low-Flow Sample Collection

To address concerns regarding potential sample volatilization in peristaltic pumps, GE collected VOC samples with a bailer from any well where a peristaltic pump was utilized for purging and sampling of non-volatile analytical parameters. However, based on discussions with EPA, it was agreed that it would be preferable to collect all samples under low-flow conditions, rather than using a bailer, to avoid possibly increasing sample turbidity by removing the pump apparatus and introducing a bailer into the wells. Therefore, bailers will no longer be used to collect VOC samples from wells purged with a peristaltic pump, provided that recharge to the well is adequate to utilize this method. Rather, all samples will be collected via the same pump used during purging. GE will continue to use submersible, bladder, and/or peristaltic pumps as its preferred method to collect water samples for laboratory analysis during future sampling events. Bailers may still be utilized at certain wells if the quantity of water available is insufficient to utilize a low-flow pumping system. This procedure will be clarified in the next update to the FSP/QAPP.

6.2.2 Additional Well Installations and Efforts to Obtain Access

As discussed in Sections 2.7 and 3.2, GE has not yet installed seven wells (39B-R, GMA3-1, GMA3-3, GMA3-5, GMA3-7, GMA3-8, and GMA3-9) that were approved for inclusion in the baseline monitoring program. GE will shortly install five of these wells -- 39B-R, GMA3-7, GMA3-8, GMA3-9, and GMA3-3 (at the revised location approved by EPA). Proposed well GMA3-5 is in an area to which GE does not have access, and EPA and GE have agreed that installation of well GMA3-1 may be deferred until after completion of future remediation actions in this area, including the re-routing of Unkamet Brook.

GE will also continue its efforts to obtain access agreements for the non-GE-owned properties between the railroad tracks and the river to install well GMA3-5 and to sample the numerous existing wells in this area. As discussed in Section 2.7, however, certain of these property owners have adopted lengthy application processes for obtaining access agreements. Accordingly, it seems unlikely that GE will be able to obtain the necessary access agreements prior to the currently scheduled October 2002 groundwater sampling event. Thus, as previously discussed with EPA, GE proposes not to conduct that sampling event if access to the areas of these wells cannot be obtained by September

30, 2002. In that case, GE would continue with the NAPL and groundwater elevation monitoring and would ensure that it conducts a minimum of four complete semi-annual baseline groundwater quality sampling events after obtaining the necessary access agreements.

6.2.3 Response to Exceedance of MCP Method 1 GW-3 Standard

As discussed in Sections 5.3.2, chlorobenzene was detected above the MCP Method 1 GW-3 standard at perimeter well 78B-R. As such, the SOW requires GE to conduct some form of action to address this exceedance. Since this report represents the initial baseline monitoring program report for GMA 3, GE plans to conduct continued monitoring, which is one of several acceptable actions provided in the CD. By conducting continued monitoring, GE will be able to establish trends within the data (e.g., decreasing concentration with time, fluctuations in concentrations with groundwater levels) and potentially identify whether or not these exceedances are localized occurrences associated with the specific well(s). If the fall 2002 sampling round is omitted due to access issues at the non-GE-owned properties, GE will still collect a sample from well 78B-R for analysis of VOCs and PCBs (which were detected at a level above the UCLs in this well).

7. Schedule of Future Activities

7.1 General

Schedule requirements related to the baseline monitoring programs were generally identified in Attachment H to the SOW, and further clarified in the GMA 3 Baseline Monitoring Proposal. This section primarily addresses scheduling issues relating to the fall 2002 monitoring event.

7.2 Field Activities Schedule

GE will install wells 39B-R, GMA3-3, GMA3-7, GMA3-8, and GMA3-9 within the next month or so. (As noted above, well GMA3-1 is located in marsh/swamp area which limits access for constructing the well; and EPA and GE have agreed to defer installation of this well.) In addition, GE will install well GMA3-5 once an access agreement has been signed by the property owner. GE will also continue its efforts to obtain property access agreements in order to gauge and sample wells located on other non-GE owned properties southeast of the railroad.

In accordance with the approved semi-annual monitoring schedule, the fall 2002 sampling event is currently scheduled for October 2002. However, as discussed in Section 6.2.2, GE proposes to defer performance of this sampling event if access to all wells cannot be obtained by September 30, 2002. To supplement the existing hydrogeologic database, GE will perform the fall 2002 quarterly groundwater elevation monitoring event in October 2002 at the wells to which it has access, and will also collect samples for VOC and PCB analyses from well 78B-R, regardless of the status of the outstanding property access issues. Prior to performance of these activities, GE will provide EPA with 7 days advance notice to allow the assignment of field oversight personnel.

GE will also continue to perform routine NAPL monitoring and recovery activities at the wells that are included in the NAPL monitoring program. In addition, as proposed in Section 6.1, GE will conduct a NAPL bailing round approximately one week prior to the fall 2002 quarterly groundwater elevation monitoring event.

7.3 Reporting Schedule

GE will submit the fall 2002 Baseline Groundwater Quality Interim Report for GMA 3 by February 28, 2003, in accordance with the previously approved reporting schedule. If the October 2002 groundwater sampling event is not

conducted due to property access issues as proposed in Section 6.2.2, that report will primarily discuss NAPL-related issues at GMA 3, as well as presenting a summary of other activities performed in fall 2002 (i.e., well installations, groundwater elevation monitoring, and an update on progress to obtain property access). Finally, GE will continue to provide the results of its ongoing groundwater monitoring activities and NAPL monitoring and recovery efforts in its monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

Tables



TABLE 1

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA MONITORING PROGRAM SUMMARY

Well Number	Monitoring Well Usage	Well Utilized in Spring 2002	Comments
2A	Sampling: Natural Attenuation	Yes	·
6B	Sampling: GW-3 Perimeter	Yes	
16A	Sampling: Natural Attenuation	Yes	
16B-R	Sampling: GW-2 Sentinel/Natural Attenuation	Yes	
16C	Sampling: Natural Attenuation	Yes	
16E	Sampling: Natural Attenuation	Yes	
34B	Monitoring: Groundwater Elevation/NAPL	Yes	
35B	Monitoring: Groundwater Elevation/NAPL	Yes	
39B	Sampling: Natural Attenuation	No	Well found to be obstructed; replacement well 39B-R to be installe
39D	Sampling: Natural Attenuation	Yes	republication with 35B R to be instance
39E	Sampling: Natural Attenuation	Yes	
43A	Sampling: Natural Attenuation	Yes	
43B	Sampling: Natural Attenuation	Yes	
50B	Monitoring: Groundwater Elevation	Yes	
51-05	Monitoring: Groundwater Elevation/NAPL	Yes	
51-06	Monitoring: Groundwater Elevation/NAPL	Yes	
51-07	Monitoring: Groundwater Elevation/NAPL	Yes	
51-08	Monitoring: Groundwater Elevation/NAPL	Yes	
51-09	Monitoring: Groundwater Elevation/NAPL	Yes	
51-11	Monitoring: Groundwater Elevation/NAPL	Yes	
51-12	Monitoring: Groundwater Elevation/NAPL	Yes	
51-13	Monitoring: Groundwater Elevation/NAPL	Yes	
51-14	Sampling: GW-2 Sentinel	Yes	

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA MONITORING PROGRAM SUMMARY

Well Number	Monitoring Well Usage	Well Utilized in Spring 2002	Comments
51-15	Monitoring: Groundwater Elevation/NAPL	Yes	
51-16R	Monitoring: Groundwater Elevation/NAPL	Yes	Replacement for well 51-16; installed February 2002
51-17	Monitoring: Groundwater Elevation/NAPL	Yes	
51-18	Monitoring: Groundwater Elevation/NAPL	Yes	
51-19	Monitoring: Groundwater Elevation/NAPL	Yes	
51-21	Monitoring: Groundwater Elevation/NAPL & NAPL Recovery	Yes	
54B	Sampling: GW-3 Perimeter	Yes	
59-01	Monitoring: Groundwater Elevation/NAPL	Yes	
59-03R	Monitoring: Groundwater Elevation/NAPL	Yes	Replacement for well 59-03; installed February 2002
59-07	Monitoring: Groundwater Elevation/NAPL	Yes	
78B-R	Sampling: GW-3 Perimeter	Yes	
82B	Sampling: GW-3 Perimeter	No	Property access agreement not yet obtained
89A	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
89B	Sampling: GW-3 Perimeter/Natural Attenuation	No	Property access agreement not yet obtained
89D	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
90A	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
90B	Sampling: GW-3 Perimeter/Natural Attenuation	No	Property access agreement not yet obtained
95A	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
95B	Sampling: GW-3 Perimeter/Natural Attenuation	No	Property access agreement not yet obtained
95C	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
111A	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
111B	Sampling: GW-3 Perimeter/Natural Attenuation	No	Property access agreement not yet obtained
114A	Sampling: Natural Attenuation	No	Property access agreement not yet obtained

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA MONITORING PROGRAM SUMMARY

Well Number	Monitoring Well Usage	Well Utilized in Spring 2002	Comments
114B	Sampling: GW-3 Perimeter/Natural Attenuation	No	Property access agreement not yet obtained
114C	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
GMA3-1	Sampling: GW-3 Perimeter	No	Proposed location in marsh; installation to be deferred
GMA3-2	Sampling: GW-2 Sentinel	Yes	i and in a second control of the second cont
GMA3-3	Sampling: GW-3 Perimeter	No	Physical access restrictions prevent installation; well to be re-located
GMA3-4	Sampling: GW-2 Sentinel	Yes	The state of the s
GMA3-5	Sampling: GW-2 Sentinel/GW-3 Perimeter	No	Property access agreement not yet obtained
GMA3-6	Sampling: GW-2 Sentinel/Source Area Sentinel	Yes	1 , was a sign of a sign o
GMA3-7	Sampling: GW-2 Sentinel/GW-3 Perimeter	No	Well location not approved in time for spring monitoring event
GMA3-8	Sampling: GW-2 Sentinel	No	Well location not approved in time for spring monitoring event
GMA3-9	Sampling: GW-2 Sentinel	No	Well location not approved in time for spring monitoring event
OBG-2	Sampling: GW-2 Sentinel	No	Property access agreement not yet obtained
UB-MW-10	Monitoring: Groundwater Elevation/NAPL	Yes	The state of the s
UB-PZ-1	Monitoring: Groundwater Elevation/NAPL	Yes	
UB-PZ-2	Monitoring: Groundwater Elevation/NAPL	Yes	
UB-PZ-3	Monitoring: Groundwater Elevation/NAPL	Yes	

Notes:

- 1. Monitoring consists of periodic depth to water and NAPL thickness measurements, if present. NAPL will be removed from a well if a thickness of greater than 0.5 feet is observed during a monitoring event (except at well 51-21, which is equipped with an automated skimmer).
- 2. Sampling consists of semi-annual sampling and analysis and quarterly groundwater elevation measurements. Analytical parameters based on well designation (i.e., GW-2 Sentinel, GW-3 Perimeter, Source Area Sentinel, &/or Natural Attenuation).

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA MONITORING WELL CONSTRUCTION SUMMARY

				Ground	Measuring		1		
XX7-11 AV				Surface	Point	Depth to Top		Top of Screen	Base of Screen
Well Number		oordinates	Well Diameter	Elevation	Elevation	of Screen	Screen Length	Elevation	Elevation
	Northing	Easting	(in)	(ft AMSL)	(ft AMSL)	(ft BMP)	(ft)	(ft AMSL)	(ft AMSL)
2A	537005.10	138853.90	1.00	991.50	994.16	45.00	5.00	946.50	941.50
6B	537190.10	138911.70	1.00	991.50	993.01	5.00	7.00	986.50	979.50
16A	536730.50	139115.60	2.00	991.50	991.77	44.00	6.00	947.50	941.50
16B-R	536738.18	139076.37	2.00	991.80	994.87	3.08	10.00	988.72	978.72
16C	536734.00	139112.40	1.00	991.40	991.47	91.00	5.00	900.40	895.40
16E	536730.30	139112.70	1.00	991.40	992.14	144.00	6.00	847.40	841.40
34B	536293.70	138394.20	2.00	1,000.50	1,000.56	20.00	5.00	980.50	975.50
39D	536948.40	138857.90	4.00	992.34	992.16	56.00	10.00	936.34	975.30
39E	536932.10	138851.00	4.00	992.34	992.21	225.00	10.00	767.34	757.34
43A	538081.20	137905.90	1.00	991.90	993.79	45.00	5.00	946.90	941.90
43B	538081.20	137904.40	1.00	991.90	993.61	15.00	5.00	976.90	
50B	538647.00	139106.20	2.00	989.72	991.72	8.50	5.00	981.22	971.90
54B	537852.80	139081.90	2.00	987.30	987.96	8.50	5.00	978.80	976.22
74B	537490.90	138374.90	1.00	996.05	995.54	15.00	5.00	981.05	973.80
78B-R	537551.80	138716.50	2.00	989.11	988.83	1.82	10.00	987.29	976.05
82B	536938.90	139618.40	2.00	987.40	990.08	7.00	3.00	987.29	977.29
89A	536030.80	139413.40	1.00	983.60	985.76	43.00	5.00		977.40
89B	536031.60	139411.70	2.00	983.10	986.03	4.00	3.00	940.60	935.60
89D	536025.90	139415.70	1.00	984.20	985.42	70.00	5.00	979.10	976.10
90A	536254.90	139765.40	1.00	986.50	988.07	45.00	5.00	914.20	909.20
90B	536251.60	139761.00	2.00	986.50	989.10	8.00		941.50	936.50
95A	535822.10	139769.60	1.00	985.30	987.18	45.00	3.00	978.50	975.50
95B	535826.80	139770.00	2.00	985.40	988.72	8.00	5.00	940.30	935.30
95C	535823.20	139780.30	1.00	985.30	988.16	95.00	3.00	977.40	974.40
111A	535819.10	139083.00	1.00	995.00	997.57	45.00	5.00	890.30	885.30
111B	535820.40	139083.80	2.00	994.90	996.75	10.00	5.00	950.00	945.00
				JJ7.JU]	7,0.73	10.00	5.00	984.90	979.90

TABLE 2

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA MONITORING WELL CONSTRUCTION SUMMARY

				Ground	Measuring				
				Surface	Point	Depth to Top		Top of Screen	Base of Screen
Well Number	Survey Co		Well Diameter	Elevation	Elevation	of Screen	Screen Length	Elevation	Elevation
	Northing	Easting	(in)	(ft AMSL)	(ft AMSL)	(ft BMP)	(ft)	(ft AMSL)	(ft AMSL)
114A	535499.50	139775.20	1.00	983.20	986.16	45.00	5.00	938.20	933.20
114B	535496.90	139796.60	2.00	983.70	984.98	5.00	5.00	978.70	973.70
114C	535500.50	139792.80	1.00	983.70	986.68	88.00	5.00	895.70	890.70
51-05	536750.50	138335.60	2.00	996.91	996.44	5.00	10.00	991.91	981.91
51-06	536937.64	138194.32	2.00	997.57	997.36	5.00	10.00	992.57	982.57
51-07	536843.80	138244.60	2.00	997.26	997.08	5.00	10.00	992.26	982.26
51-08	536677.80	138317.00	2.00	997.39	997.08	5.00	10.00	992.39	982.39
51-09	536563.70	138370.30	2.00	997.76	997.70	5.00	10.00	992.76	982.76
51-11	536860.00	138774.50	2.00	994.62	994.37	5.00	10.00	989.62	979.62
51-12	536497.30	138518.50	2.00	996.83	996.55	5.00	10.00	991.83	981.83
51-13	536917.10	138579.80	2.00	997.68	997.65	5.00	10.00	992.68	982.68
51-14	536771.40	138502.60	2.00	996.93	996.77	5.00	10.00	991.93	981.93
51-15	536808.20	138306.30	2.00	996.68	996.43	5.00	10.00	991.68	981.68
51-16R	536830.20	138347.60	2.00	996.70	996.39	5.00	10.00	991.70	981.70
51-17	536769.90	138377.40	2.00	996.48	996.43	5.00	10.00	991.48	981.48
51-18	536902.90	138463.40	2.00	997.38	997.12	5.00	10.00	992.38	982.38
51-19	536823.20	138414.80	2.00	996.65	996.43	5.00	10.00	991.65	981.65
51-21	536767.70	138442.35	4.00	996.50*	996.35	5.00	10.00	991.50	981.50
59-01	536488.80	138238.60	2.00	997.78	996.72	4.00	20.00	993.78	973.78
59-03R	536501.00	138260.70	2.00	997.82	997.64	7.30	10.00	990.52	980.52
59-07	536517.40	138296.10	2.00	998.27	997.96	4.00	20.00	994.27	974.27
GMA3-2	536596.40	138956.60	2.00	992.25	991.94	5.19	10.00	987.06	977.06
GMA3-4	537044.70	138021.80	2.00	994.94	994.60	3.57	10.00	991.37	981.37
GMA3-6	537021.50	138342.30	2.00	997.74	997.49	8.00	10.00	989.74	979.74
OBG-2	537209.10	139475.80	3.00	992.24	992.20	3.00	11.40	989.24	977.84
UB-MW-10	536908.10	138278.30	1.00	996.21	995.99	8.00	10.00	988.21	978.21

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA MONITORING WELL CONSTRUCTION SUMMARY

Well Number			Well Diameter	Ground Surface Elevation	Measuring Point Elevation	Depth to Top	Screen Length		Base of Screen Elevation
	Northing	Easting	(in)	(ft AMSL)	(ft AMSL)	(ft BMP)	(ft)	(ft AMSL)	(ft AMSL)
UB-PZ-1	536336.80	138383.90	1.00	999.00	999.70	9.00	5.00	990.00	985.00
UB-PZ-2	536726.10	138735.70	1.00	994.40	994.77	4.00	10.00	990.40	980.40
UB-PZ-3	536480.10	138110.00	1.00	998.55	998.15	11.00	5.00	987.55	982.55

NOTES:

- 1. The listed wells were utilized during fall 2001 for baseline groundwater quality sampling or hydraulic conductivity testing.
- 2. ft AMSL: Feet above mean sea level
- 3. ft BGS: Feet below ground surface
- 4. N/A: Information not available.
- 5. Ground surface elevation is estimated based on ground surface elevations of surrounding wells.

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ELEVATION DATA - JANUARY AND APRIL 2002

Well Number	Measuring Point Elevation (ft AMSL)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	DNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
2A	994.16	1/7/2002	9.24		0.00		0.00	984.92
2 11	JJ4.10	4/23/2002	8.55		0.00		0.00	985.61
6B	993.01	1/7/2002	6.42		0.00		0.00	986.59
~~	<i>JJJ</i> .01	4/25/2002	6.17		0.00		0.00	986.84
16B-R	994.87	1/2/02	NM	NM	NM	NM	NM	NA
10D IC	JJ4.07	4/26/2002	9.30		0.00		0.00	985.57
34B	1,000.56	1/2/2002	DRY		0.00		0.00	<990.27
J.D	1,000.50	4/30/2002	14.67		0.00	NM	NM	985.89
39E	992.21	1/7/2002	6.96		0.00	****	0.00	985.25
27.13	772.21	4/25/2002	6.05		0.00		0.00	986.16
43B	993.61	1/8/2002	6.64		0.00		0.00	986.97
100	773.01	4/26/2002	6.02		0.00		0.00	987.59
50B	991.72	Jan-02	NM	NM	NM	NM	NM	NA
0 0 2	771.72	4/26/2002	3.12		0.00		0.00	988.60
54B	987.96	1/9/2002	1.30		0.00		0.00	986.66
	707.50	4/29/2002	1.05		0.00		0.00	986.91
74B	995.54	1/9/2002	7.57		0.00		0.00	987.97
		Apr-02	NM	NM	NM	NM	NM	NA
78B-R	988.83	Jan-02	NM	NM	NM	NM	NM	NA
, 0.0 10	700.03	4/25/2002	2.14		0.00		0.00	986.69
82B	990.08	1/7/2002	5.65		0.00		0.00	984.43
		Apr-02	NM	NM	NM	NM	NM	NA
89A	985.76	1/8/2002	4.38		0.00		0.00	981.38
	702.70	Apr-02	NM	NM	NM	NM	NM	NA
90A	988.07	1/8/2002	6.39		0.00		0.00	981.68
J 021	700.07	Apr-02	NM	NM	NM	NM	NM	NA
95A	987.18	1/9/2002	7.27		0.00		0.00	979.91
	707.10	Apr-02	NM	NM	NM	NM	NM	NA

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ELEVATION DATA - JANUARY AND APRIL 2002

Well Number	Measuring Point Elevation (ft AMSL)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	DNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
111B	996.75	1/8/2002	14.50		0.00		0.00	982.25
* * * * *	220.73	Apr-02	NM	NM	NM	NM	NM	NA
114B	984.98	1/9/2002	6.53		0.00		0.00	978.45
	704.70	Apr-02	NM	NM	NM	NM	NM	NA
51-5	996.44	1/2/2002	12.27	11.42	0.85		0.00	984.96
313		4/30/2002	10.72	10.63	0.09	NM	NM	985.80
51-6	997.36	1/2/2002	11.55		0.00		0.00	985.81
31 0	797.50	4/30/2002	11.09		0.00	NM	NM	986.27
51-7	996.81	1/2/2002	11.20		0.00		0.00	985.61
31-7	997.08	4/30/2002	11.14		0.00	NM	NM	985.94
51-8	997.08	1/2/2002	13.10	11.90	1.20		0.00	985.10
31-0	337.00	4/30/2002	12.70	11.20	1.50	NM	NM	985.78
51-9	997.70	1/2/2002	9.71		0.00		0.00	987.99
31-7	991.10	4/30/2002	10.25		0.00	NM	NM	987.45
51-11	994.66	1/2/2002	7.62		0.00		0.00	987.04
51-11	994.37	4/30/2002	8.50		0.00	NM	NM	985.87
51-12	996.75	1/2/2002	7.84		0.00		0.00	988.91
J1-12	996.55	4/30/2002	7.28		0.00	NM	NM	989.27
51-13	997.65	1/2/2002	DRY		0.00		0.00	<987.40
	997.42	4/30/2002	DRY		0.00	NM	NM	<987.41
51-14	996.77	1/2/2002	11.60		0.00		0.00	985.17
31-14	990.77	4/30/2002	10.95		0.00	NM	NM	985.82
51-15	996.43	1/2/2002	11.82	11.20	0.62		0.00	985.19
51-15	330.43	4/30/2002	10.71	10.53	0.18	NM	NM	985.89
51-16/51-16R	996.46	1/2/2002	9.50		0.00		0.00	986.96
51-10/51-10K	996.39	4/30/2002	10.51	10.50	0.01	NM	NM	985.89
51-17	996.43	1/2/2002	11.62		0.00		0.00	984.81
J1-1/	220.43	4/30/2002	11.52	10.28	1.24	NM	NM	986.06

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ELEVATION DATA - JANUARY AND APRIL 2002

Well Number	Measuring Point Elevation (ft AMSL)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	DNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
51-18	997.31	1/2/2002	12.05	***	0.00		0.00	985.26
31.10	997.12	4/30/2002	11.13		0.00	NM	NM	985.99
51-19	996.50	1/2/2002	11.92	11.25	0.67		0.00	985.20
51.17	996.43	4/30/2002	11.21	10.51	0.70	NM	NM	985.87
51-21	996.35	1/2/2002	15.34	15.33	0.01			981.02
31-21	770.55	4/24/2002	15.72		< 0.01			980.63
59-1	996.72	1/2/2002	DRY		0.00	7	0.00	<986.15
3,7-1	997.52	4/30/2002	DRY		0.00	NM	NM	<986.20
59-3/59-3R	997.79	1/2/2002	13.40	12.65	0.75		0.00	985.09
39-3/39-3R	997.64	4/30/2002	12.80	11.79	1.01	NM	NM	985.78
59-7	997.96	1/2/2002	13.45	12.92	0.53		0.00	985.00
55-1	751.50	4/30/2002	12.77	12.00	0.77	NM	NM	985.91
GMA3-2	991.94	Jan-02	NM	NM	NM	NM	NM	NA
	771,74	4/26/2002	8.87		0.00		0.00	983.07
GMA3-4	994.60	Jan-02	NM	NM	NM	NM	NM	NA
	JJ4.00	4/23/2002	7.35		0.00		0.00	987.25
GMA3-6	997.49	Jan-02	NM	NM	NM	NM	NM	NA
	227.12	4/25/2002	11.30		0.00		0.00	986.19
OBG-2	992.24	1/7/2002	5.61		0.00		0.00	986.63
0202	JJ2.24	Apr-02	NM	NM	NM	NM	NM	NA
UB-MW-10	996.11	1/2/2002	10.73		0.00		0.00	985.38
022111110		4/30/2002	10.00		0.00		0.00	986.11
UB-PZ-1	999.70	1/2/2002	DRY		0.00		0.00	<986.45
J2 12 1	<i>J</i>	4/30/2003	DRY		0.00	NM	NM	<986.50
UB-PZ-2	994.77	1/2/2002	10.10		0.00		0.00	984.67
J. 101	JJT.11	4/30/2003	9.42		0.00	NM	NM	985.35
UB-PZ-3	998.15	1/2/2002	13.37	13.11	0.26		0.00	985.02
3D-12-3	770.13	4/30/2002	12.45	12.44	0.01	NM	NM	985.71

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ELEVATION DATA - JANUARY AND APRIL 2002

Well Number	Measuring Point Elevation (ft AMSL)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	DNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
Staff Gauge 3	985.53	4/16/2002	1.94					987.47

NOTES:

- 1. --- Indicates LNAPL or DNAPL was not present in a mesurable quantity
- 2. ft AMSL Feet Above Mean Sea Level
- 3. ft BMP Feet Below Measuring Point
- 4. ft feet
- 5. NA Information not available.
- 6. NM Depth to groundwater not measured during the month of the date shown.
- 7. Dry Indicates that groundwater was not present in the well at the time measurements were conducted.
- 8. A Staff Gauge reading of 0.00 feet corresponds to an elevation of 985.53 feet AMSL. The Depth to Water value shown above for this gauge refers to feet above/below (+/-) the datum rather than feet BMP.
- 9. The measuring points of several wells were altered at several monitoring wells as a result of well repair activities performed between the January and April monitoring events. In these cases, the measuring point elevations utilized for each monitoring event are listed.

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA LNAPL MEASUREMENTS AND RECOVERY - JANUARY THROUGH JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	Daily LNAPL Removal Per Well (liters)	Monthly LNAPL Removal for All Wells (total)
51-15	996.43	1/2/2002	11.82	11.20	0.62	985.19	0.380	(liters)
51-19	996.50	1/2/2002	11.92	11.25	0.67	985.20	0.380	222.39
51-21	996.35	1/2/2002	15.34	15.33	0.01	981.02	0.000	
59-3	997.79	1/2/2002	13.40	12.65	0.75	985.09	0.460	
59-7	997.96	1/2/2002	13.45	12.92	0.53	985.00	0.325	
51-5	996.44	1/2/2002	12.27	11.42	0.85	984.96	0.520	
51-8	997.08	1/2/2002	13.10	11.90	1.20	985.10	0.740	
UB-PZ-3	998.15	1/2/2002	13.37	13.11	0.26	985.02	0.000	
51-19	996.50	1/7/2002	11.90	11.35	0.55	985.11	0.000	
59-3	997.79	1/7/2002	13.59	12.65	0.94	985.07	0.000	
59-7	997.96	1/7/2002	13.47	12.98	0.49	984.95	0.000	
51-5	996.44	1/7/2002	12.29	11.34	0.95	985.03	0.000	
51-8	997.08	1/7/2002	13.29	11.94	1.35	985.05	0.000	
51-15	996.43	1/8/2002	12.14	11.31	0.83	985.06	0.000	
51-21	996.35	1/9/2002	16.46		<0.01	979.89	109.777	
51-21	996.35	1/16/2002	16.58	16.55	0.03	979.80	0.000	
51-21	996.35	1/23/2002	15.63	16.58	0.05	980.77	0.000	
51-21	996.35	1/31/2002	16.87	16.49	0.38	979.83	109.777	
59-7	997.96	2/5/2002	14.08	12.91	1.17	984.97	0.000	3.39
51-21	996.35	2/6/2002	16.46	16.45	0.01	979.90	0.000	3.37
51-15	996.43	2/12/2002	11.79	11.23	0.56	985.16	0.350	
51-17	996.43	2/12/2002	12.25	11.03	1.22	985.31	0.750	
51-19	996.50	2/12/2002	11.90	11.33	0.57	985.13	0.350	
59-7	997.96	2/12/2002	13.56	12.73	0.83	985.17	0.510	
51-5	996.44	2/12/2002	12.36	11.54	0.82	984.84	0.505	
51-8	997.08	2/12/2002	13.43	11.94	1.49	985.04	0.920	
UB-MW-10	996.11	2/12/2002	10.81	10.80	0.01	985.31	0.000	
UB-PZ-3	998.15	2/12/2002	We she Wa	13.21	0.18	N/A	0.000	
51-21	996.35	2/13/2002	16.40	16.38	0.02	979.97	0.000	
51-21	996.35	2/20/2002	17.38	16.37	1.01	979.91	0.000	
51-16R	996.39	2/22/2002	11.62	11.52	0.10	984.86	0.000	

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA LNAPL MEASUREMENTS AND RECOVERY - JANUARY THROUGH JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	Daily LNAPL Removal Per Well (liters)	Monthly LNAPL Removal for All Wells (total)
UB-MW-10	996.11	3/11/2002	10.60	10.58	0.02	985.53		(liters)
51-21	996.35	3/13/2002	16.25	16.21			0.000	113.47
51-15	996.43	3/25/2002	11.49	11.05	0.04	980.14	109.777	
51-16R	996.39	3/25/2002	11.20	10.99	0.21	985.35	0.000	
51-17	996.43	3/25/2002	12.01	10.80	1.21	985.39	0.000	
51-19	996.50	3/25/2002	11.66	11.03	0.63	985.55	0.745	
59-3R	997.64	3/25/2002	13.21	12.33	0.88	985.43	0.390	
59-7	997.96	3/25/2002	13.66	12.50		985.25	0.540	
51-5	996.44	3/25/2002	11.81	11.10	1.16	985.38	0.715	
51-8	997.08	3/25/2002	13.11	11.72	0.71	985.29	0.440	
UB-PZ-3	998.15	3/25/2002	13.41	13.40	1.39	985.26	0.860	
51-21	996.35	4/10/2002	15.80	15.79	0.01	984.75	0.000	
51-21	996.35	4/24/2002	15.72		0.01	980.56	109.774	218.92
51-15	996.43	4/30/2002	10.71	10.53	<0.01	980.63	105.988	
51-16R	996.39	4/30/2002	10.71		0.18	985.89	0.000	
51-17	996.43	4/30/2002	11.52	10.50 10.28	0.01	985.89	0.000	
51-19	996.43	4/30/2002	11.32	10.28	1.24	986.06	0.757	
59-3R	997.64	4/30/2002	12.80		0.70	985.87	0.379	
59-7	997.96	4/30/2002	12.77	11.79	1.01	985.78	0.606	
51-5	996.44	4/30/2002	10.72	12.00	0.77	985.91	0.473	
51-8	997.08	4/30/2002		10.63	0.09	985.80	0.000	
UB-PZ-3	998.15	4/30/2002	12.70	11.20	1.50	985.78	0.946	
51-15	996.43	5/22/2002	12.45	12.44	0.01	985.71	0.000	***
51-16R	996.39	5/22/2002	10.35	10.22	0.13	986.20	0.000	2.39
51-19	996.43	5/22/2002	10.19	10.16	0.03	986.23	0.000	
59-3R	990.43	5/22/2002	10.41	10.25	0.16	986.17	0.640	
51-5	997.04		12.89	11.39	1.50	986.15	0.925	
51-8	990.44	5/22/2002	10.30	10.25	0.05	986.19	0.000	
UB-PZ-3	997.08	5/22/2002	12.19	10.86	1.33	986.13	0.820	
59-7	997.96	5/22/2002	12.31	12.10	0.21	986.04	0.000	
3,7-1	337.30	5/23/2002	11.74	11.71	0.03	986.25	0.000	

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA LNAPL MEASUREMENTS AND RECOVERY - JANUARY THROUGH JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	Daily LNAPL Removal Per Well (liters)	Monthly LNAPL Removal for All Wells (total) (liters)
51-21	996.35	6/5/2002	15.55	15.54	0.01	980.81	0.000	2.81
51-15	996.43	6/26/2002	10.62	10.46	0.16	985.96	0.000	
51-16R	996.39	6/26/2002	10.75	10.40	0.35	985.97	0.000	
51-17	996.43	6/26/2002	11.43	10.20	1.23	986.14	0.760	
51-19	996.43	6/26/2002	11.24	10.45	0.79	985.92	0.485	
59-3R	997.64	6/26/2002	12.63	11.60	1.03	985.97	0.635	
59-7	997.96	6/26/2002	11.99	11.90	0.09	986.05	0.000	
51-5	996.44	6/26/2002	10.55	10.51	0.04	985.93	0.000	
51-8	997.08	6/26/2002	12.56	11.05	1.51	985.92	0.930	
UB-PZ-3	998.15	6/26/2002	12.61	12.20	0.41	985.92	0.000	

Total amount of LNAPL Recovered - January through June 2002: 563.36 liters 148.83 gallons

NOTES

- 1. --- indicates LNAPL was not present in a measurable quantity
- 2. NA indicates information not available.
- 3. NM indicates data not measured.
- 4. NR indicates information not recorded.
- 5. Several wells were repaired in February 2002, resulting in the development of new measuring point elevations after completion of those activities.
- 6. ft = Feet
- 7. ft BMP = Feet Below Measuring Point
- 8. ft AMSL = Feet Above Mean Sea Level

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA FIELD PARAMETER MEASUREMENTS - APRIL 2002

Well Number	Turbidity (NTU)	Temperature (degrees Celsius)	pH (standard units)	Specific Conductivity (mS/cm)	Oxidation- Reduction Potential (mV)	Dissolved Oxygen (mg/L)
2A	45.0	10.62	8.61	0.424	-126.0	3.75
6B	2.0	9.90	7.57	0.858	-135.0	11.11
16A	25.0	11.28	7.63	7.190	-207.0	4.61
16B-R	18.0	8.60	8.24	1.310	-200.0	0.00
16C	17.0	8.78	7.87	0.362	-135.0	5.43
16E	4.0	9.89	8.78	0.137	-46.0	4.20
39D	19.0	10.54	8.55	0.309	-45.0	0.60
39E	4.0	10.50	7.36	0.198	-140.0	0.00
43A	12.0	8.90	8.00	0.800	-160.0	1.20
43B	9.0	9.00	7.90	1.200	-143.0	1.33
51-14	1.0	9.80	6.33	1.480	88.0	5.09
54B	987.0	6.30	6.36	0.260	-48.0	9.45
78B-R	5.0	8.90	7.58	1.110	-204.0	0.00
GMA3-2	10.0	9.30	7.05	7.210	-109.0	0.00
GMA3-4	7.0	14.10	6.77	0.347	83.0	7.87
GMA3-6	2.0	13.30	7.05	1.160	-132.0	0.00

Notes:

- 1. Measurements collected during spring 2002 GMA 3 baseline monitoring program sampling activities between April 23 and April 29, 2002.
- 2. Well parameters were generally monitored continuously during purging by low-flow techniques. Final parameter readings are presented.
- 3. NTU Nephelometric Turbidity Units
- 4. mS/cm Millisiemens per centimeter
- 5. mV Millivolts
- 6. mg/L Milligrams per liter (ppm)

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-2 STANDARDS

(Results are presented in parts per million, ppm)

Parameter D	Sample ID: Date Collected:	Method 1 GW-2 Standards			GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02		
Volatile Organics									
Benzene		2	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.016	ND(0.0050)	ND(0.0050)		
Chlorobenzene		l	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0096		
Chloroform		0.4	ND(0.0050) [ND(0.0050)]	0.0034 J	ND(0.0050)	ND(0.0050)	ND(0.0050)		
Ethylbenzene		30	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.019	ND(0.0050)	ND(0.0050)		
Toluene		6	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.011	ND(0.0050)	ND(0.0050)		
Xylenes (total)		6	ND(0.010) [ND(0.010)]	ND(0.010)	0.079 EJ	ND(0.010)	ND(0.010)		
Total VOCs		5	ND(0.20) [ND(0.20)]	0.0034 J	0.13 J	ND(0.20)	0.0096		
Semivolatile Organ	Semivolatile Organics								
1,4-Dichlorobenzen	e	30	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.0037 J	ND(0.0050)	ND(0.010)		
Naphthalene		6	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.0026 J	ND(0.0050)	ND(0.010)		

Notes:

- 1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis.
- 2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
- Only those constituents detected in one or more samples are summarized.
- 4. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- 5. Duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

- J Indicates that the associated numerical value is an estimated concentration.
- E Analyte exceeded calibration range.

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

Sample ID:	Method 1 GW-3	6B	54B	78B-R	GMA3-6
Parameter Date Collected:	Standards	04/25/02	04/29/02	04/25/02	GMA3-6 04/25/02
Volatile Organics			0 11 27 02	04/25/02	04/23/02
Benzene	7	0.20	ND(0.0050)	2.5	ND(0.0050)
Chlorobenzene	0.5	0.082	ND(0.0050)	9-3-2-5 2.5	
Ethylbenzene	4	ND(0.0050)	ND(0.0050)	0.019	ND(0.0050)
Toluene	50	ND(0.0050)	ND(0.0050)	0.0044 J	ND(0.0050)
Vinyl Chloride	40	ND(0.0020)	0.011	ND(0.0020)	ND(0.0020)
Xylenes (total)	50	ND(0.010)	ND(0.010)	0.052 EJ	ND(0.010)
Total VOCs	Not Listed	0.28	0.011	5.1	0.0096
PCBs-Unfiltered					3.0030
Aroclor-1248	Not Applicable	ND(0.000065)	ND(0.000065)	0.0056	ND(0.000065)
Aroclor-1254	Not Applicable	ND(0.000065)	0.000078	0.0017	ND(0.000065)
Total PCBs	Not Applicable	ND(0.000065)	0.000078	0.0073	ND(0.000065)
PCBs-Filtered					1 (0.00000)
Aroclor-1248	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	0.0003	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Semivolatile Organics				<u> </u>	
1,4-Dichlorobenzene	8	ND(0.010)	ND(0.010)	0.016 J	ND(0.010)
2-Chlorophenol	40	ND(0.010)	ND(0.010)	0.0060 J	ND(0.010)
2-Methylnaphthalene	3	ND(0.010)	ND(0.010)	0.0074 J	ND(0.010)
Acenaphthene	5	ND(0.010)	ND(0.010)	0.0049 J	ND(0.010)
Dibenzofuran	Not Listed	ND(0.010)	ND(0.010)	0.0046 J	ND(0.010)
Fluorene	3	ND(0.010)	ND(0.010)	0.0041 J	ND(0.010)
Phenanthrene	0.05	ND(0.010)	ND(0.010)	0.0050 J	ND(0.010)
Phenol	30	ND(0.010)	ND(0.010)	0.016	ND(0.010)
Organochlorine Pesticides					
None Detected			**		
Herbicides					
None Detected			**		
Furans					
2,3,7,8-TCDF	Not Listed	ND(0.0000000035) X	ND(0.000000018)	ND(0.0000000027)	ND(0.0000000016)
TCDFs (total)	Not Listed	ND(0.0000000028)	ND(0.0000000018)	ND(0.0000000027)	ND(0.0000000016)
1,2,3,7,8-PeCDF	Not Listed	0.000000014 J	ND(0.0000000025)	ND(0.0000000028) X	ND(0.0000000025)
2,3,4,7,8-PeCDF	Not Listed	0.000000011 J	ND(0.0000000025)	0.0000000053 J	ND(0.0000000019) X
PeCDFs (total)	Not Listed	0.000000026	ND(0.0000000025)	0.000000021	ND(0.0000000025)
1,2,3,4,7,8-HxCDF	Not Listed	0.000000011 J	ND(0.0000000035)	0.000000015 J	ND(0.0000000018) X
1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	Not Listed	0.0000000099 J	ND(0.0000000031)	0.0000000061 J	ND(0.0000000025)
1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF	Not Listed	0.000000010 J	ND(0.0000000039)	0.0000000044 J	ND(0.0000000025)
HxCDFs (total)	Not Listed	0.0000000091 J	ND(0.0000000035)	0.0000000044 J	ND(0.0000000025)
1,2,3,4,6,7,8-HpCDF	Not Listed	0.000000040	ND(0.0000000035)	0.000000055	ND(0.0000000025)
1,2,3,4,7,8,9-HpCDF	Not Listed	0.0000000078 J	ND(0.0000000025)	0.0000000074 J	ND(0.0000000025)
HpCDFs (total)	Not Listed Not Listed	ND(0.0000000070) X	ND(0.0000000025)	0.0000000039 J	ND(0.0000000025)
OCDF	Not Listed Not Listed	0.0000000078	ND(0.0000000025)	0.000000011	ND(0.0000000025)
Total Furans	Not Listed Not Listed	0.000000013 J 0.000000087	ND(0.0000000059)	0.0000000068 J	ND(0.0000000050)
A OTAL 1 SIMIS	Not Listed	V.00000008 /	ND(0.0000000059)	0.00000094	ND(0.000000050)

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

	Sample ID:	Method 1 GW-3	6B	54B	78B-R	GMA3-6
Parameter	Date Collected:	Standards	04/25/02	04/29/02	04/25/02	04/25/02
Dioxins						
2,3,7,8-TCDD		Not Listed	ND(0.0000000042) X	ND(0.000000035)	ND(0.0000000026)	ND(0.0000000026)
TCDDs (total)		Not Listed	ND(0.000000033)	ND(0.000000035)	ND(0.0000000032)	ND(0.000000026)
1,2,3,7,8-PeCDD		Not Listed	0.00000013 J	ND(0.0000000025)	ND(0.0000000028)	ND(0.000000036)
PeCDDs (total)		Not Listed	0.00000013	ND(0.000000037)	ND(0.0000000033)	ND(0.000000036)
1,2,3,4,7,8-HxCDD		Not Listed	ND(0.000000094) X	ND(0.0000000086)	ND(0.0000000094)	ND(0.000000033)
1,2,3,6,7,8-HxCDD		Not Listed	0.0000000093 J	ND(0.0000000076)	ND(0.0000000083)	ND(0.0000000029)
1,2,3,7,8,9-HxCDD		Not Listed	0.0000000092 J	ND(0.0000000078)	ND(0.0000000085)	ND(0.0000000030)
HxCDDs (total)		Not Listed	0.00000018	ND(0.0000000080)	ND(0.0000000087)	ND(0.0000000031)
1,2,3,4,6,7,8-HpCDI)	Not Listed	0.0000000095 J	ND(0.0000000029) X	0.0000000039 J	0.0000000020 J
HpCDDs (total)		Not Listed	0.000000095	ND(0.0000000030)	0.0000000085	0.0000000020
OCDD		Not Listed	0.00000019 J	0.000000017 J	0.000000030 J	0.0000000075 J
Total Dioxins		Not Listed	0.000000060	0.000000017	0.000000039	0.000000095
Total TEQs (WHO		0.0000001	0.000000028	0.0000000057	0.00000010	0.0000000047
Inorganics-Unfilter	ed					
Arsenic		Not Applicable	ND(0.0100)	0.0170	ND(0.0100)	0.0160
Barium		Not Applicable	ND(0.200)	0.260	1.20	0.350
Beryllium		Not Applicable	ND(0.00100)	0.00230	ND(0.00100)	ND(0.00100)
Chromium		Not Applicable	ND(0.0100)	0.0310	ND(0.0100)	ND(0.0100)
Copper		Not Applicable	ND(0.0250)	0.0590	ND(0.0250)	ND(0.0250)
Cyanide		0.01	0.00350 B	ND(0.0100)	ND(0.0100)	ND(0.0100)
Lead		Not Applicable	ND(0.00300)	0.0200	0.00220 B	ND(0.00300)
Nickel		Not Applicable	ND(0.0400)	0.0430	ND(0.0400)	ND(0.0400)
Zinc		Not Applicable	ND(0.0200) J	0.210	ND(0.0200) J	ND(0.0200)
Inorganics-Filtered						
Arsenic		0.4	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Barium		30	ND(0.200)	ND(0.200)	0.970	0.260
Beryllium		0.05	ND(0.00100)	0.000820 B	ND(0.00100)	ND(0.00100)
Chromium		2	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Copper		Not Listed	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Lead		0.03	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)
Nickel		0.08	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Zinc		0.9	ND(0.0200) J	0.0160 B	ND(0.0200) J	ND(0.0200)

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Notes:

- Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis
 of PCBs and other Appendix IX + 3 constituents.
- Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
- 3. Only those constituents detected in one or more samples are summarized.
- 4. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- 5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
- Duplicate sample results are presented in brackets.
- Indicates that all constituents for the parameter group were not detected.
- Shading indicates that value exceeds Method 1 GW-3 standard.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

- J Indicates that the associated numerical value is an estimated concentration.
- E Analyte exceeded calibration range.
- X Estimated maximum possible concentration.

Inorganics

- B Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J Indicates that the associated numerical value is an estimated concentration.

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

Sample ID: Parameter Date Collected:	UCL	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02
Volatile Organics				*	
Benzene	70	4.4	0.20	7.5	ND(0.0050) [ND(0.0050)]
Chlorobenzene	10	8.2	0.082	16	
Chloroform	100	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]
Ethylbenzene	100	ND(0.0050)	ND(0.0050)	0.0054 J	ND(0.0050) [ND(0.0050)]
Methylene Chloride	100	0.0082	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]
Toluene	100	0.16	ND(0.0050)	0.35	ND(0.0050) [ND(0.0050)]
trans-1,2-Dichloroethene	100	ND(0.0050)	ND(0.0050)	0.014	ND(0.0050) [ND(0.0050)]
Trichloroethene	100	0.47	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]
Vinyl Chloride	100	ND(0.0050)	ND(0.0020)	0.16	ND(0.0020) [ND(0.0020)]
Xylenes (total)	100	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
Total VOCs	Not Listed	13	0.28	24	ND(0.20) [ND(0.20)]
PCBs-Unfiltered				I	
Aroclor-1248	Not Listed	NS	ND(0.000065)	NS	l NS
Aroclor-1254	Not Listed	NS	ND(0.000065)	NS	NS
Total PCBs	0.005	NS	ND(0.000065)	NS	NS NS
PCBs-Filtered					1
Aroclor-1248	Not Listed	NS	ND(0.000065)	NS	l NS
Aroclor-1254	Not Listed	NS	ND(0.000065)	NS	NS NS
Total PCBs	0.005	NS	ND(0.000065)	NS	NS NS
Semivolatile Organics		<u> </u>			.,,,
1,2-Dichlorobenzene	100	0.016	ND(0.010)	0.084	ND(0.0050) [ND(0.0050)]
1,4-Dichlorobenzene	100	0.024	ND(0.010)	0.16	ND(0.0050) [ND(0.0050)]
2-Chlorophenol	100	NS	ND(0.010)	NS	NS
2-Methylnaphthalene	100	NS	ND(0.010)	NS NS	NS NS
Acenaphthene	50	NS	ND(0.010)	NS	NS NS
Dibenzofuran	Not Listed	NS	ND(0.010)	NS	NS NS
Fluorene	30	NS	ND(0.010)	NS NS	NS NS
Naphthalene	60	0.0072	ND(0.010)	0.060 J	ND(0.0050) [ND(0.0050)]
Phenanthrene	3	NS	ND(0.010)	NS	NS
Phenol	100	NS	ND(0.010)	NS	NS NS
Organochlorine Pesticides			· · · · · · · · · · · · · · · · · · ·		
None Detected		NS		NS	NS
Herbicides			<u> </u>		.,,
None Detected	**	NS		NS	NS
urans					- 1.2
,3,7,8-TCDF	Not Listed	NS	ND(0.0000000035) X	NS	NS
CDFs (total)	Not Listed	NS	ND(0.0000000028)	NS	NS NS
,2,3,7,8-PeCDF	Not Listed	· NS	0.00000014 J	NS	NS NS
,3,4,7,8-PeCDF	Not Listed	NS	0.000000011 J	NS NS	NS NS
eCDFs (total)	Not Listed	NS	0.000000026	NS NS	NS NS
,2,3,4,7,8-HxCDF	Not Listed	NS	0.000000011 J	NS	NS NS
,2,3,6,7,8-HxCDF	Not Listed	NS	0.0000000099 J	NS	NS NS
,2,3,7,8,9-HxCDF	Not Listed	NS	0.000000010 J	NS	NS
,3,4,6,7,8-HxCDF	Not Listed	NS	0.0000000091 J	NS NS	NS NS
IxCDFs (total)	Not Listed	NS	0.000000040	NS	NS NS
,2,3,4,6,7,8-HpCDF	Not Listed	NS	0.0000000078 J	NS	NS NS
,2,3,4,7,8,9-HpCDF	Not Listed	NS	ND(0.0000000070) X	NS	NS NS
pCDFs (total)	Not Listed	NS	0.000000078	NS	NS NS
CDF	Not Listed	NS	0.000000013 J	NS	NS NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

	Sample ID:	UCL	002A	6B	16A	16B-R
Parameter	Date Collected:		04/23/02	04/25/02	04/26/02	04/26/02
Dioxins						
2,3,7,8-TCDD		Not Listed	NS	ND(0.000000042) X	NS	NS
TCDDs (total)		Not Listed	NS	ND(0.000000033)	NS	NS
1,2,3,7,8-PeCDD		Not Listed	NS	0.00000013 J	NS	NS
PeCDDs (total)		Not Listed	NS	0.00000013	NS	NS
1,2,3,4,7,8-HxCDD		Not Listed	NS	ND(0.000000094) X	NS	NS
1,2,3,6,7,8-HxCDD		Not Listed	NS	0.000000093 J	NS	NS
1,2,3,7,8,9-HxCDD		Not Listed	NS	0.000000092 J	NS	NS
HxCDDs (total)		Not Listed	NS	0.00000018	NS	NS
1,2,3,4,6,7,8-HpCDI)	Not Listed	NS	0.000000095 J	NS	NS
HpCDDs (total)		Not Listed	NS	0.000000095	NS	NS
OCDD		Not Listed	NS	0.000000019 J	NS	NS
Total TEQ (WHO T	EFs)	0.000001	NS	0.000000028	NS	NS
Inorganics-Unfilter	ed					
Arsenic		4	NS	ND(0.0100)	NS	NS
Barium		100	NS	ND(0.200)	NS	NS
Beryllium		0.5	NS	ND(0.00100)	NS	NS
Chromium		20	NS	ND(0.0100)	NS	NS
Copper		Not Listed	NS	ND(0.0250)	NS	NS
Cyanide		2	NS	0.00350 B	NS	NS
Lead		0.3	NS	ND(0.00300)	NS	NS ·
Nickel		1	NS	ND(0.0400)	NS	NS
Zinc		20	NS	ND(0.0200) J	NS	NS
Inorganics-Filtered						
Arsenic		4	NS	ND(0.100)	NS	NS
Barium		100	NS	ND(0.200)	NS	NS
Beryllium		0.5	NS	ND(0.00100)	NS	NS
Chromium		20	NS	ND(0.0250)	NS	NS
Copper		Not Listed	NS	ND(0.100)	NS	NS
Lead		0.3	NS	ND(0.00300)	NS	NS
Nickel		1	NS	ND(0.0400)	NS	NS
Zinc		20	NS	ND(0.0200) J	NS	NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

Parameter	Sample ID: Date Collected:	UCL	16C 04/25/02	16E 04/25/02	39D 04/23/02	43A 04/26/02
Volatile Organics	······································			- 7, 7,	0 1/20/02	04/20/02
Benzene		70	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene		10	0.0027 J	ND(0.0050)	0.0063	ND(0.0050)
Chloroform		100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene		100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride		100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Toluene		100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene		100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene		100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride		100	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Xylenes (total)		100	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs		Not Listed	0.0027 J	ND(0.20)	0.0063	ND(0.20)
PCBs-Unfiltered				1 ()		112(0.20)
Aroclor-1248		Not Listed	NS	NS	NS	NS
Aroclor-1254		Not Listed	NS	NS	NS NS	NS NS
Total PCBs		0.005	NS	NS NS	NS	NS NS
PCBs-Filtered	<u>-</u>				1.0	1 110
Aroclor-1248		Not Listed	NS	NS	NS	NS
Aroclor-1254		Not Listed	NS	NS	NS NS	NS NS
Total PCBs		0.005	NS	NS	NS NS	NS NS
Semivolatile Organics					110	113
1,2-Dichlorobenzene		100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dichlorobenzene		100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chlorophenol		100	NS NS	NS	NS	NS NS
2-Methylnaphthalene		100	NS	NS NS	NS NS	NS NS
Acenaphthene		50	NS	NS NS	NS NS	NS NS
Dibenzofuran		Not Listed	NS	NS NS	NS NS	NS NS
luorene	****	30	NS	NS NS	NS NS	NS NS
Naphthalene		60	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
henanthrene		3	NS NS	NS	NS	NS NS
henol		100	NS NS	NS NS	NS NS	NS NS
Organochlorine Pesticides				110	110	142
None Detected		***	NS I	NS I	NS	NS
lerbicides					113	149
one Detected			NS I	NS I	NS	NS
urans			1		110	11/2
,3,7,8-TCDF		Not Listed	NS	NS	NS I	NS
CDFs (total)		Not Listed	NS NS	NS	NS NS	NS NS
,2,3,7,8-PeCDF		Not Listed	NS NS	NS NS	NS NS	
,3,4,7,8-PeCDF		Not Listed	NS NS	· NS	NS NS	NS NS
eCDFs (total)		Not Listed	NS NS	NS	NS NS	NS NS
2,3,4,7,8-HxCDF		Not Listed	NS NS	NS NS	NS NS	NS NS
2,3,6,7,8-HxCDF		Not Listed	NS NS	NS NS	NS NS	NS NS
2,3,7,8,9-HxCDF		Not Listed	NS NS	NS	NS NS	NS NS
3,4,6,7,8-HxCDF		Not Listed	NS	NS NS	NS NS	NS NS
xCDFs (total)		Not Listed	NS	NS NS	NS NS	NS NS
2,3,4,6,7,8-HpCDF		Not Listed	NS NS	NS NS	NS NS	
2,3,4,7,8,9-HpCDF		Not Listed	NS NS	NS NS	NS NS	NS NE
pCDFs (total)		Not Listed	NS NS	NS NS	NS NS	NS NS
CDF		Not Listed	NS NS	NS NS	NS NS	NS NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

	Sample ID:	UCL	16C	16E	39D	43A
Parameter	Date Collected:		04/25/02	04/25/02	04/23/02	04/26/02
Dioxins					<u> </u>	
2,3,7,8-TCDD		Not Listed	NS	NS	NS	NS
TCDDs (total)		Not Listed	NS	NS	NS	NS
1,2,3,7,8-PeCDD		Not Listed	NS	NS	NS	NS
PeCDDs (total)		Not Listed	NS	NS	NS	NS
1,2,3,4,7,8-HxCDD		Not Listed	NS	NS	NS	NS
1,2,3,6,7,8-HxCDD		Not Listed	NS	NS	NS	NS
1,2,3,7,8,9-HxCDD		Not Listed	NS	NS	NS	NS
HxCDDs (total)		Not Listed	NS	NS	NS	NS
1,2,3,4,6,7,8-HpCDD		Not Listed	NS	NS	NS	NS
HpCDDs (total)		Not Listed	NS	NS	NS	NS
OCDD		Not Listed	NS	NS	NS	NS
Total TEQ (WHO TEFs)		0.000001	NS	NS	NS	NS
norganics-Unfiltered					<u> </u>	
Arsenic		4	NS	NS	NS	NS
3arium		100	NS	NS	NS	NS
Beryllium		0.5	NS	NS	NS	NS
Chromium		20	NS	NS	NS	NS
Copper		Not Listed	NS	NS	NS	NS
Cyanide		2	NS	NS	NS	NS
_ead		0.3	NS	NS	NS	NS
Vickel		1	NS	NS	NS	NS
linc		20	NS	NS	NS	NS
norganics-Filtered					······································	
Arsenic		4	NS	NS	NS	NS
Barium		100	NS	NS	NS	NS
Beryllium		0.5	NS	NS	NS	NS
Chromium		20	NS	NS	NS	NS
Copper		Not Listed	NS	NS	NS	NS
ead		0.3	NS	NS	NS	NS
lickel		1	NS	NS	NS	NS
inc		20	NS	NS	NS	NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

Sample ID: Parameter Date Collected:	UCL	43B 04/26/02	51-14 04/23/02	54B 04/29/02	78B-R 04/25/02
Volatile Organics		· · ·			
Benzene	70	ND(0.0050)	ND(0.0050)	ND(0.0050)	2.5
Chlorobenzene	10	ND(0.0050)	ND(0.0050)	ND(0.0050)	2.5
Chloroform	100	ND(0.0050)	0.0034 J	ND(0.0050)	ND(0.0050)
Ethylbenzene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.019
Methylene Chloride	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Toluene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0044 J
trans-1,2-Dichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	100	ND(0.0020)	ND(0.0020)	0.011	ND(0.0030)
Xylenes (total)	100	ND(0.010)	ND(0.010)	ND(0.010)	0.052 EJ
Total VOCs	Not Listed	ND(0.20)	0.0034 J	0.011	5.1
PCBs-Unfiltered	1101 Easted	1 11D(0.20)	0.00543	0.011] 3.1
Aroclor-1248	Not Listed	NS	NS	ND(0.000065)	0.0056
Aroclor-1254	Not Listed	NS	NS NS	0.000078	0.0036
Total PCBs	0.005	NS	NS NS	0.00078	0.0017
PCBs-Filtered	0.003	110	11/3	0.000078	[managers around of the party].
Aroclor-1248	Not Listed	l NS	NS	ND(0.0000(5)	VD(0.0000(5)
Aroclor-1254	Not Listed	NS NS	NS NS	ND(0.000065)	ND(0.000065)
Total PCBs	0.005	NS NS	NS NS	ND(0.000065)	ND(0.000065)
Semivolatile Organics	0.005	IND	142	ND(0.000065)	ND(0.000065)
1,2-Dichlorobenzene	100	NID(0.0050)	NID(0.0050)	ND(0.010)	
1,4-Dichlorobenzene	100	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.010) J
2-Chlorophenol	100	ND(0.0050)	ND(0.0050)	ND(0.010)	0.016 J
2-Chlorophenol 2-Methylnaphthalene		NS	NS	ND(0.010)	0.0060 J
Acenaphthene	100 50	NS	NS NS	ND(0.010)	0.0074 J
		NS	NS	ND(0.010)	0.0049 J
Dibenzofuran Fluorene	Not Listed	NS	NS	ND(0.010)	0.0046 J
Naphthalene	30	NS NS	NS	ND(0.010)	0.0041 J
Phenanthrene	60	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.010) J
Phenol	3	NS NS	NS NS	ND(0.010)	0.0050 J
	100	NS	NS	ND(0.010)	0.016
Organochlorine Pesticides None Detected		7.75	3.6		
Herbicides		NS	NS		
None Detected	**	NS	NS		-
urans		·			
2,3,7,8-TCDF	Not Listed	NS	NS	ND(0.0000000018)	ND(0.0000000027)
CCDFs (total)	Not Listed	NS	NS	ND(0.000000018)	ND(0.0000000027)
,2,3,7,8-PeCDF	Not Listed	NS	NS	ND(0.0000000025)	ND(0.0000000028) X
.3,4,7,8-PeCDF	Not Listed	NS	NS	ND(0.0000000025)	0.0000000053 J
eCDFs (total)	Not Listed	NS	NS	ND(0.0000000025)	0.000000021
,2,3,4,7,8-HxCDF	Not Listed	NS	NS	ND(0.0000000035)	0.000000015 J
,2,3,6,7,8-HxCDF	Not Listed	NS	NS	ND(0.0000000031)	0.0000000061 J
,2,3,7,8,9-HxCDF	Not Listed	NS	NS	ND(0.0000000039)	0.000000044 J
,3,4,6,7,8-HxCDF	Not Listed	NS	NS	ND(0.0000000035)	0.0000000044 J
(xCDFs (total)	Not Listed	NS	NS	ND(0.000000035)	0.00000055
,2,3,4,6,7,8-HpCDF	Not Listed	NS	NS	ND(0.0000000025)	0.000000074 J
,2,3,4,7,8,9-HpCDF	Not Listed	NS	NS	ND(0.0000000025)	0.0000000039 J
pCDFs (total)	Not Listed	NS	NS	ND(0.0000000025)	0.000000011
CDF	Not Listed	NS	NS	ND(0.0000000059)	0.0000000068 J

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

	Sample ID:	UCL	43B	51-14	54B	78B-R
Parameter	Date Collected:		04/26/02	04/23/02	04/29/02	04/25/02
Dioxins						
2,3,7,8-TCDD		Not Listed	NS	NS	ND(0.000000035)	ND(0.0000000026)
TCDDs (total)		Not Listed	NS	NS	ND(0.000000035)	ND(0.000000032)
1,2,3,7,8-PeCDD		Not Listed	NS	NS	ND(0.0000000025)	ND(0.0000000028)
PeCDDs (total)		Not Listed	NS	NS	ND(0.000000037)	ND(0.000000033)
1,2,3,4,7,8-HxCDD		Not Listed	NS	NS	ND(0.000000086)	ND(0.0000000094)
1,2,3,6,7,8-HxCDD		Not Listed	NS	NS	ND(0.000000076)	ND(0.0000000083)
1,2,3,7,8,9-HxCDD		Not Listed	NS	NS	ND(0.000000078)	ND(0.0000000085)
HxCDDs (total)		Not Listed	NS	NS	ND(0.0000000080)	ND(0.000000087)
1,2,3,4,6,7,8-HpCDD		Not Listed	NS	NS	ND(0.0000000029) X	0.0000000039 J
HpCDDs (total)		Not Listed	NS	NS	ND(0.000000030)	0.000000085
OCDD		Not Listed	NS	NS	0.00000017 J	0.000000030 J
Total TEQ (WHO TI	EFs)	0.000001	NS	NS	0.000000057	0.00000010
Inorganics-Unfiltered	i					
Arsenic		4	NS	NS	0.0170	ND(0.0100)
Barium		100	NS	NS	0.260	1.20
Beryllium		0.5	NS	NS	0.00230	ND(0.00100)
Chromium		20	NS	NS	0.0310	ND(0.0100)
Copper		Not Listed	NS	NS	0.0590	ND(0.0250)
Cyanide		2	NS	NS	ND(0.0100)	ND(0.0100)
Lead		0.3	NS	NS	0.0200	0.00220 B
Nickel		1	NS	NS	0.0430	ND(0.0400)
Zinc		20	NS	NS	0.210	ND(0.0200) J
Inorganics-Filtered						
Arsenic		4	NS	NS	ND(0.100)	ND(0.100)
Barium		100	NS	NS	ND(0.200)	0.970
Beryllium		0.5	NS	NS	0.000820 B	ND(0.00100)
Chromium		20	NS	NS	ND(0.0250)	ND(0.0250)
Copper		Not Listed	NS	NS	ND(0.100)	ND(0.100)
Lead		0.3	NS	NS	ND(0.00300)	ND(0.00300)
Nickel		1	NS	NS	ND(0.0400)	ND(0.0400)
Zinc		20	NS	NS	0.0160 B	ND(0.0200) J

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

Sample ID: Parameter Date Collected:	UCL	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-E 04/25/02
Volatile Organics					1 0112002
Benzene	70	0.016	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	10	ND(0.0050)	ND(0.0050)	0.0096	ND(0.0050)
Chloroform	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	100	0.019	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Toluene	100	0.011	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	100	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Xylenes (total)	100	0.079 EJ	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	Not Listed	0.13 J	ND(0.20)	0.0096	ND(0.20)
PCBs-Unfiltered			1 12(0:20)	0.0070	110(0.20)
Aroclor-1248	Not Listed	NS	NS	ND(0.000065)	NS
Aroclor-1254	Not Listed	NS NS	NS	ND(0.000065)	NS NS
Total PCBs	0.005	NS NS	NS NS	ND(0.000065)	NS
PCBs-Filtered		1		112(0.00000)	110
Aroclor-1248	Not Listed	NS	NS	ND(0.000065)	l NS
Aroclor-1254	Not Listed	NS	NS NS	ND(0.000065)	NS NS
Total PCBs	0.005	NS NS	NS NS	ND(0.000065)	NS NS
Semivolatile Organics	0.000	1 110	110	14D(0.000003)	1 113
1,2-Dichlorobenzene	100	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
1,4-Dichlorobenzene	100	0.0037 J	ND(0.0050)	ND(0.010)	ND(0.0050)
2-Chlorophenol	100	NS	NS	ND(0.010)	ND(0.0030) NS
2-Methylnaphthalene	100	NS	NS NS	ND(0.010)	NS NS
Acenaphthene	50	NS NS	NS NS	ND(0.010)	NS NS
Dibenzofuran	Not Listed	NS NS	NS	ND(0.010)	NS
Fluorene	30	NS	NS	ND(0.010)	NS NS
Naphthalene	60	0.0026 J	ND(0.0050)	ND(0.010)	ND(0.0050)
Phenanthrene	3	NS NS	NS	ND(0.010)	NS NS
Phenol	100	NS NS	NS	ND(0.010)	NS NS
Organochlorine Pesticides		1 1.0	110	14D(0.010)	140
None Detected		NS	NS		NS
Herbicides			110		149
None Detected		NS	NS		NS
Furans		1 10 1			110
2,3,7,8-TCDF	Not Listed	NS	NS	ND(0.0000000016)	NS
TCDFs (total)	Not Listed	NS NS	NS NS	ND(0.000000016)	NS NS
1.2.3,7.8-PeCDF	Not Listed	NS NS	NS NS	ND(0.0000000010)	NS NS
2,3,4,7,8-PeCDF	Not Listed	NS NS	· NS	ND(0.0000000023)	NS NS
PeCDFs (total)	Not Listed	NS NS	NS NS	ND(0.0000000019) X	NS NS
1,2,3,4,7,8-HxCDF	Not Listed	NS NS	NS NS	ND(0.0000000018) X	NS NS
1,2,3,6,7,8-HxCDF	Not Listed	NS	NS NS	ND(0.00000000018) X	NS NS
1,2,3,7,8,9-HxCDF	Not Listed	NS NS	NS NS	ND(0.0000000025)	NS NS
2,3,4,6,7,8-HxCDF	Not Listed	NS NS	NS NS	ND(0.000000025)	NS NS
HxCDFs (total)	Not Listed	NS NS	NS NS	ND(0.0000000025)	NS NS
1,2,3,4,6,7,8-HpCDF	Not Listed	NS NS	NS NS	ND(0.000000025)	NS NS
1,2,3,4,7,8,9-HpCDF	Not Listed	NS NS	NS NS	ND(0.0000000025) ND(0.0000000025)	NS NS
HpCDFs (total)	Not Listed	NS NS	NS NS	ND(0.0000000025)	NS NS
DCDF	Not Listed	NS NS	NS NS	ND(0.000000025) ND(0.0000000050)	NS NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

	Sample ID:	UCL	GMA3-2	GMA3-4	GMA3-6	MW-39-E
Parameter	Date Collected:		04/26/02	04/23/02	04/25/02	04/25/02
Dioxins						
2,3,7,8-TCDD		Not Listed	NS	NS	ND(0.0000000026)	NS
TCDDs (total)		Not Listed	NS	NS	ND(0.0000000026)	NS
1,2,3,7,8-PeCDD		Not Listed	NS	NS	ND(0.000000036)	NS
PeCDDs (total)		Not Listed	NS	NS	ND(0.000000036)	NS
1,2,3,4,7,8-HxCDD		Not Listed	NS	NS	ND(0.000000033)	NS
1,2,3,6,7,8-HxCDD		Not Listed	NS	NS	ND(0.0000000029)	NS
1,2,3,7,8,9-HxCDD		Not Listed	NS	NS	ND(0.0000000030)	NS
HxCDDs (total)		Not Listed	NS	NS	ND(0.0000000031)	NS
1,2,3,4,6,7,8-HpCDL)	Not Listed	NS	NS	0.0000000020 J	NS
HpCDDs (total)		Not Listed	NS	NS	0.0000000020	NS
OCDD		Not Listed	NS	NS	0.0000000075 J	NS
Total TEQ (WHO T	(EFs)	0.000001	NS	NS	0.000000047	NS
Inorganics-Unfilter	ed					
Arsenic		4	NS	NS	0.0160	NS
Barium		100	NS	NS	0.350	NS
Beryllium		0.5	NS	NS	ND(0.00100)	NS
Chromium		20	NS	NS	ND(0.0100)	NS
Copper		Not Listed	NS	NS	ND(0.0250)	NS
Cyanide		2	NS	NS	ND(0.0100)	NS
Lead		0.3	NS	NS	ND(0.00300)	NS
Vickel		1	NS	NS	ND(0.0400)	NS
Zinc		20	NS	NS	ND(0.0200)	NS
norganics-Filtered					<u></u>	
Arsenic		4	NS	NS	ND(0.100)	NS
Barium		100	NS	NS	0.260	NS
3eryllium		0.5	NS	NS	ND(0.00100)	NS
Chromium		20	NS	NS	ND(0.0250)	NS
Copper		Not Listed	NS	NS	ND(0.100)	NS
ead		0.3	NS	NS	ND(0.00300)	NS
Vickel		1	NS	NS	ND(0.0400)	NS
Zinc		20	NS	NS	ND(0.0200)	NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

(Results are presented in parts per million, ppm)

Notes:

- Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis
 of PCBs, other Appendix IX + 3 constituents and Natural Attenuation Parameters.
- Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
- Only those constituents detected in one or more samples are summarized.
- 4. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- 5. NS Not Sampled Parameter was not requested on sample chain of custody form.
- Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
- Duplicate sample results are presented in brackets.
- o. -- Indicates that all constituents for the parameter group were not detected.
- Shading indicates that value exceeds UCL.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

- J Indicates that the associated numerical value is an estimated concentration.
- E Analyte exceeded calibration range.
- X Estimated maximum possible concentration.

Inorganics

- B Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J Indicates that the associated numerical value is an estimated concentration.

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA NATURAL ATTENUATION PARAMETERS

(Results are presented in parts per million, ppm)

Sample ID:	002A	16A	16B-R	16C		r					
Parameter Date Collected:		04/26/02	04/26/02	1	16E	39D	43A	43B	MW-39-E		
Volatile Organics		0 1/20/02	04/26/02	04/25/02	04/25/02	04/23/02	04/26/02	04/26/02	04/25/02		
Benzene	4.4	7.5	ND(0.0050) DID(0.0050)	VTD /0.00503			·				
Chlorobenzene	8.2	16	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)		
Ethylbenzene	ND(0.0050)	0.0054 J	ND(0.0050) [ND(0.0050)]	0.0027 J	ND(0.0050)	0.0063	ND(0.0050)	ND(0.0050)	ND(0.0050)		
Methylene Chloride	0.0082		ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)		
Toluene		ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)		
trans-1,2-Dichloroethene	0.16	0.35	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)		
	ND(0.0050)	0.014	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)		
Trichloroethene	0.47	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)		
Vinyl Chloride	ND(0.0050)	0.16	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)		
Total VOCs	13	24	ND(0.20) [ND(0.20)]	0.0027 J	ND(0.20)	0.0063	ND(0.20)	ND(0.20)	ND(0.20)		
Natural Attenuation Parameters											
Alkalinity (Total)	140	490	480 [480]	160	79.0	160	330	670	24.0		
Chloride	40	1700	290 [280]	4.0	1.8	4.0		570	24.0		
Dissolved Organic Carbon	11.0	59.0	11.0 [15.0]	8.70	3.20	2.10	29	49	9.2		
Ethane	0.017	ND(0.050)	ND(0.10) [ND(0.20)]	ND(0.50)			4.30	9.00	5.20		
Ethene	0.30	0.15	ND(0.10) [ND(0.20)]		ND(0.10)	ND(0.020)	ND(0.050)	ND(0.10)	ND(0.0010)		
Iron	ND(0.0500)	1.30	0.360 [ND(0.0500)]	ND(0.50)	ND(0.10)	ND(0.020)	ND(0.050)	ND(0.10)	ND(0.0010)		
Methane	0.0450	1.40		ND(0.0500)	ND(0.0500)	0.130	ND(0.0500)	ND(0.0500)	ND(0.0500)		
Nitrate Nitrogen	0.0490 B	0.0140 B	2.70 [2.70]	12.0	2.00	0.0230	0.730	1.30	ND(0.00100)		
Nitrite Nitrogen	0.00300 B		0.0270 B [0.0320 B]	0.150	0.110	0.0370 B	0.0200 B	0.0170 B	1.00		
Sulfate (turbidimetric)	30.0	ND(0.0500)	0.00360 B [0.00340 B]	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)		
(and the state of	20.0	5.30	15.0 [16.0]	3.60	1.60	18.0	42.0	1.30	5.70		

Notes

- 1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis.
- 2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
- 3. Only those constituents detected in one or more samples are summarized.
- 4. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- 5. Duplicate sample results are presented in brackets.

Data Qualifiers:

Organics

J - Indicates that the associated numerical value is an estimated concentration.

Inorganic

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA LNAPL ANALYTICAL RESULTS

(Results are presented in parts per million, unless otherwise noted)

	le ID:	51-15-OIL-1	51-19-OIL-1	59-3R-OIL-1
Parameter Date Coll	ected:	08/19/02	08/19/02	08/19/02
Volatile Organics				
Ethylbenzene		110	29	ND(5.0)
Xylenes (total)		67	87	ND(5.0)
PCBs				
Aroclor-1254		9.8	ND(7.6)	ND(7.6)
Aroclor-1260		16	100	76
Total PCBs		25.8	100	76
Semivolatile Organics		•		
1,2,4-Trichlorobenzene		ND(220)	ND(110)	31 J
1,4-Dichlorobenzene		ND(220)	65 J	ND(110)
2-Methylnaphthalene		4400	750	ND(110)
Acenaphthene		860	ND(110)	ND(110)
Benzoic Acid		300	ND(110)	ND(110)
Fluorene		670	100 J	ND(110)
Naphthalene		1900	330	ND(110)
Phenanthrene		1500	240	ND(110)
Pyrene		370	57 J	ND(110)
Physical Parameters				
Interfacial Tension (mN/m)		289.00	272.00	260.70
Kinematic Viscosity @100 °C (mm		2.338	2.669	3.018
Specific Gravity @60/60 °F (unitles	ss)	0.9583	0.8957	0.8974

Notes:

- 1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs, volatiles, semivolatiles, Interfacial Tension, Kinematic Viscosity, and Specific Gravity.
- 2. With the exception of Conventional Parameters only those constituents detected in one or more samples are summarized.
- 3. ND Analyte was not detected. The number in parentheses is the associated detection limit.

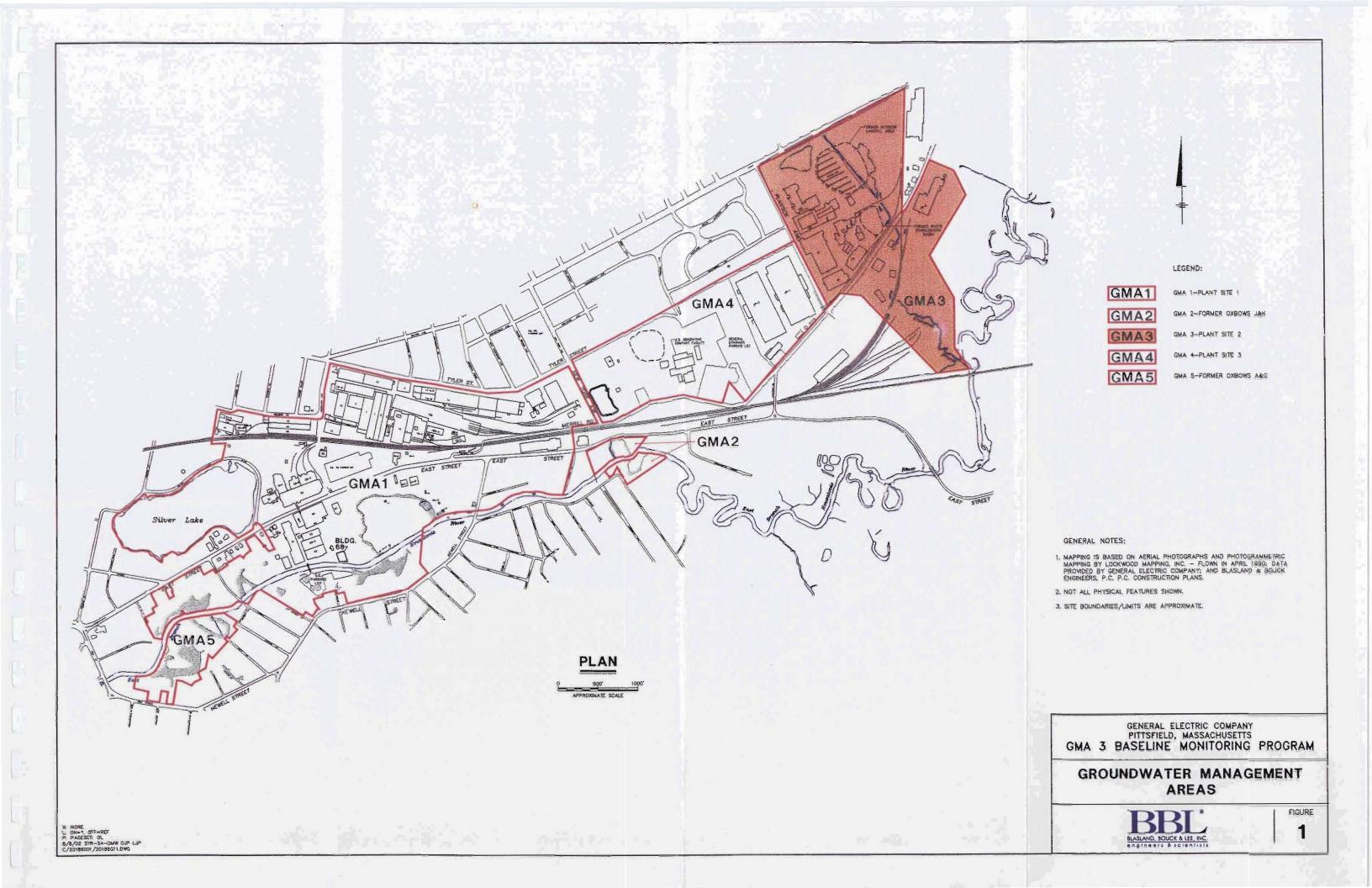
Data Qualifiers:

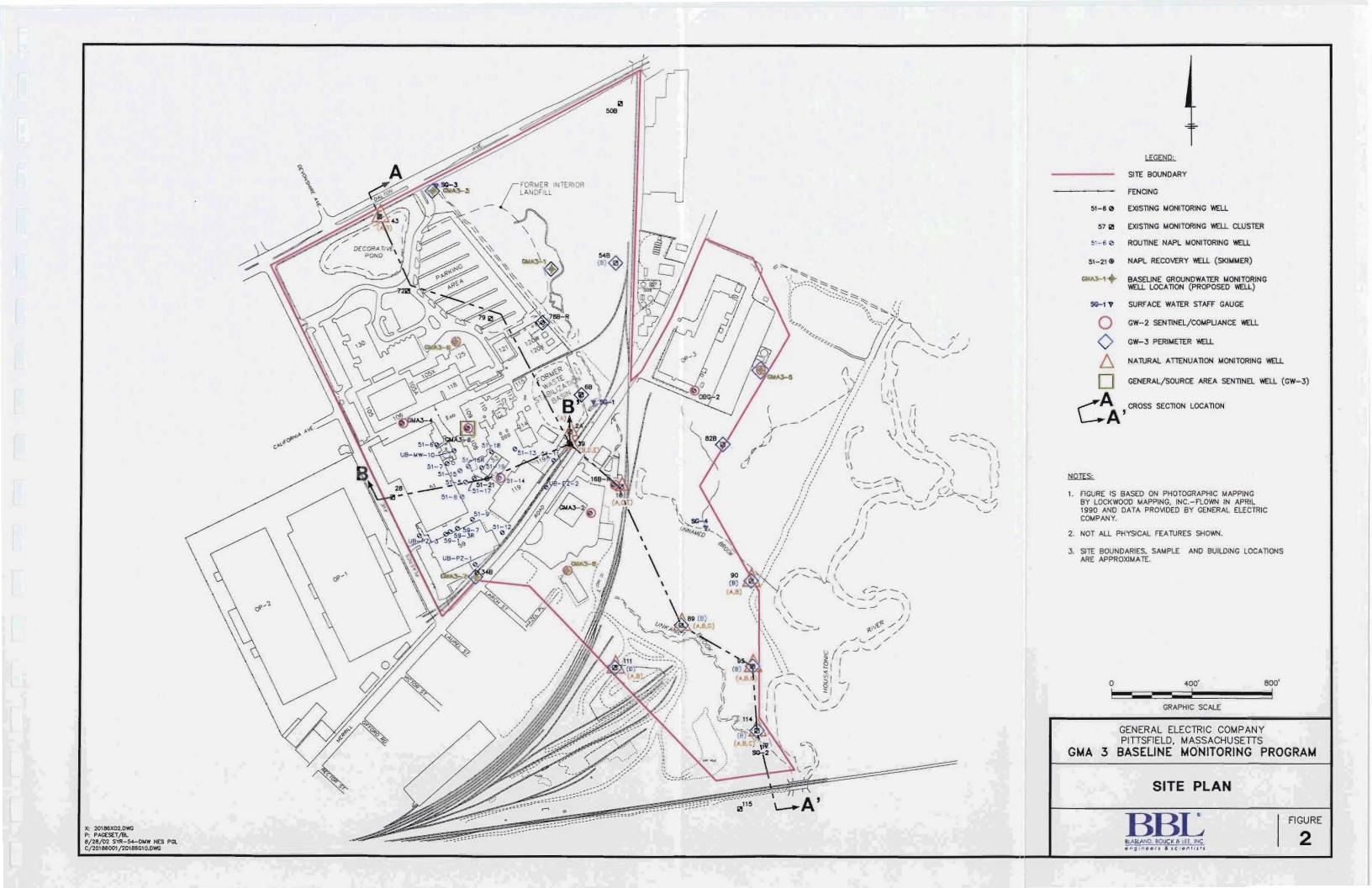
Organics (volatiles, PCBs, semi-volatiles,)

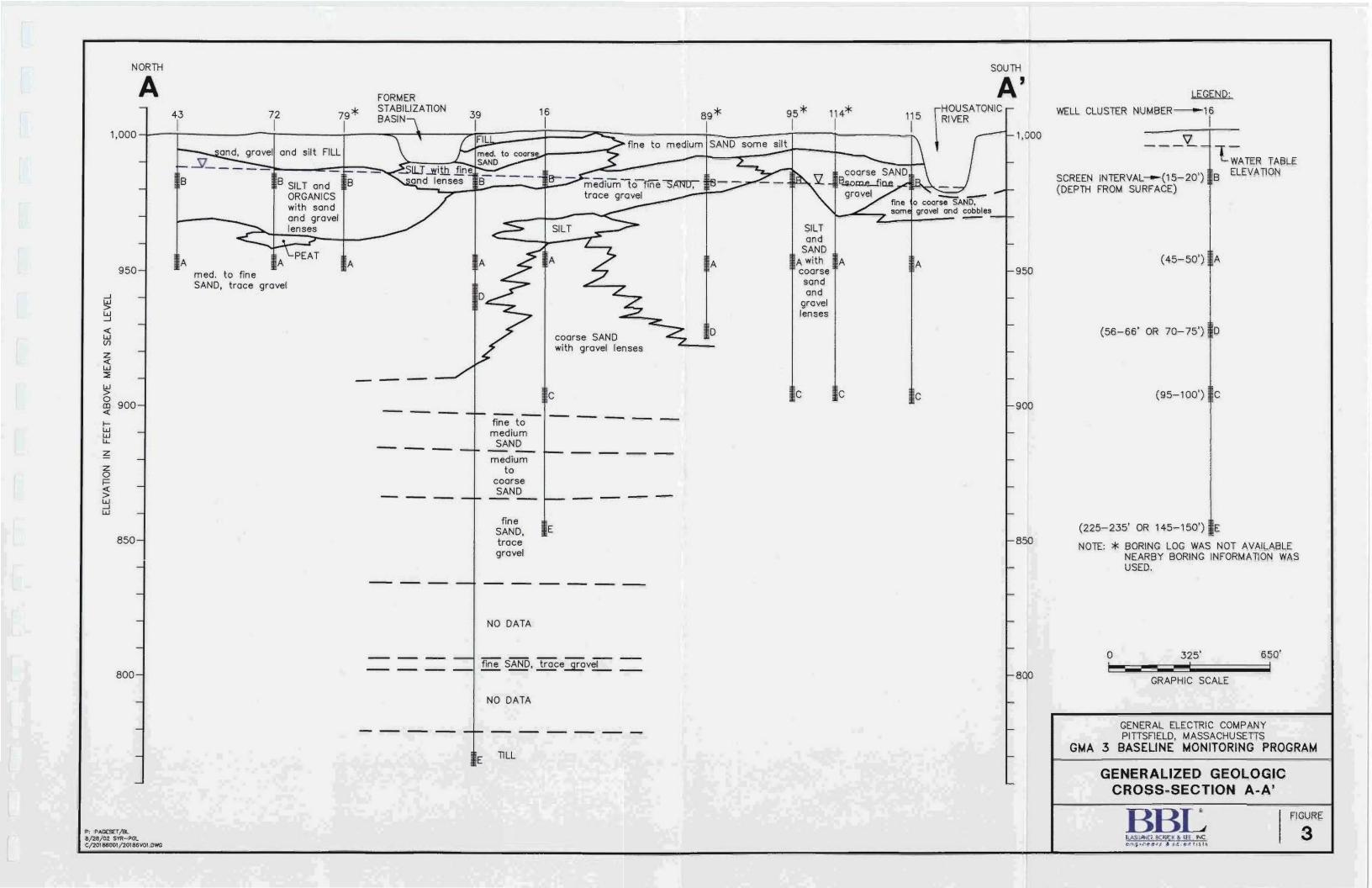
J - Indicates an estimated value less than the practical quantitation limit (PQL)

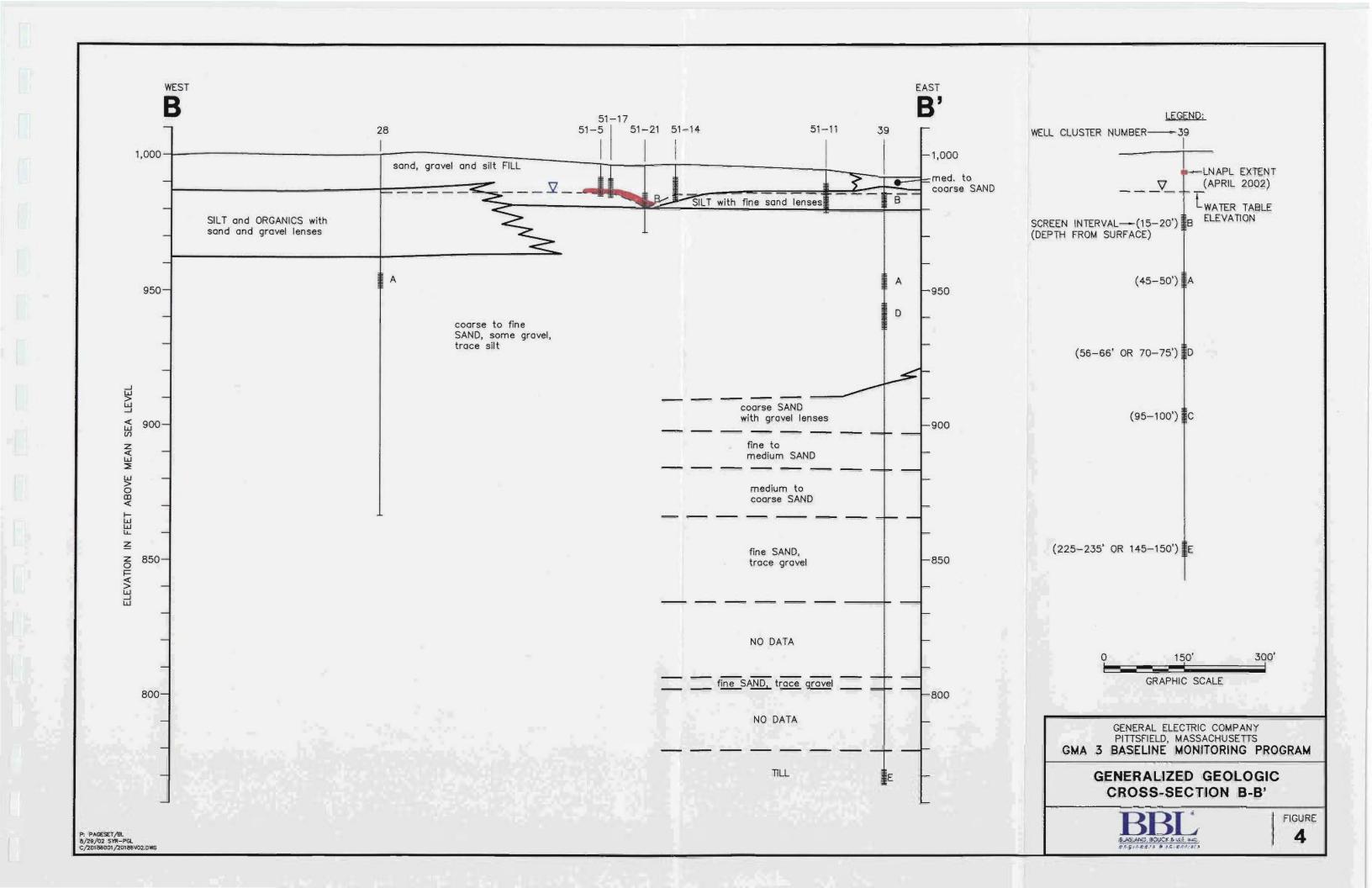
Figures

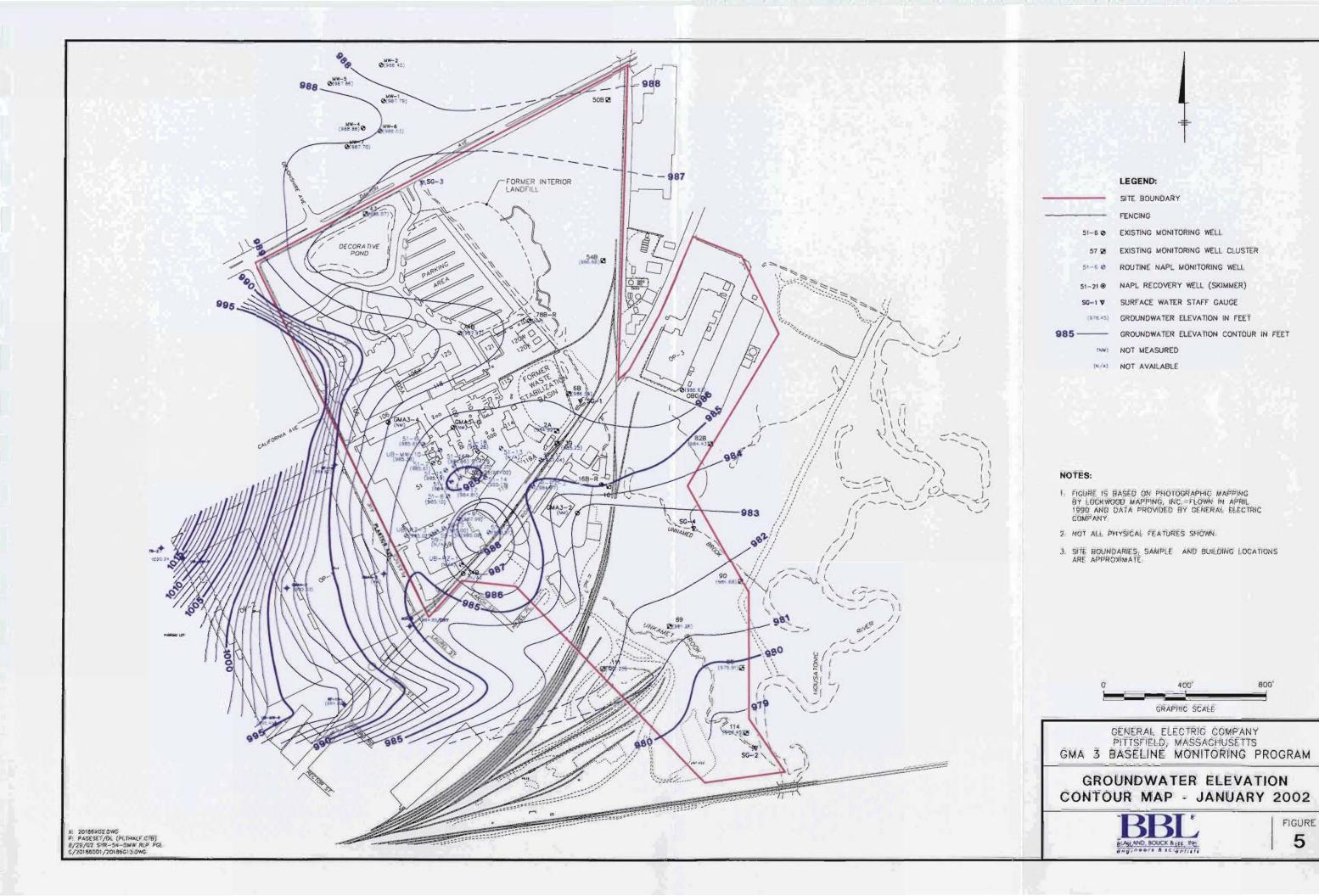


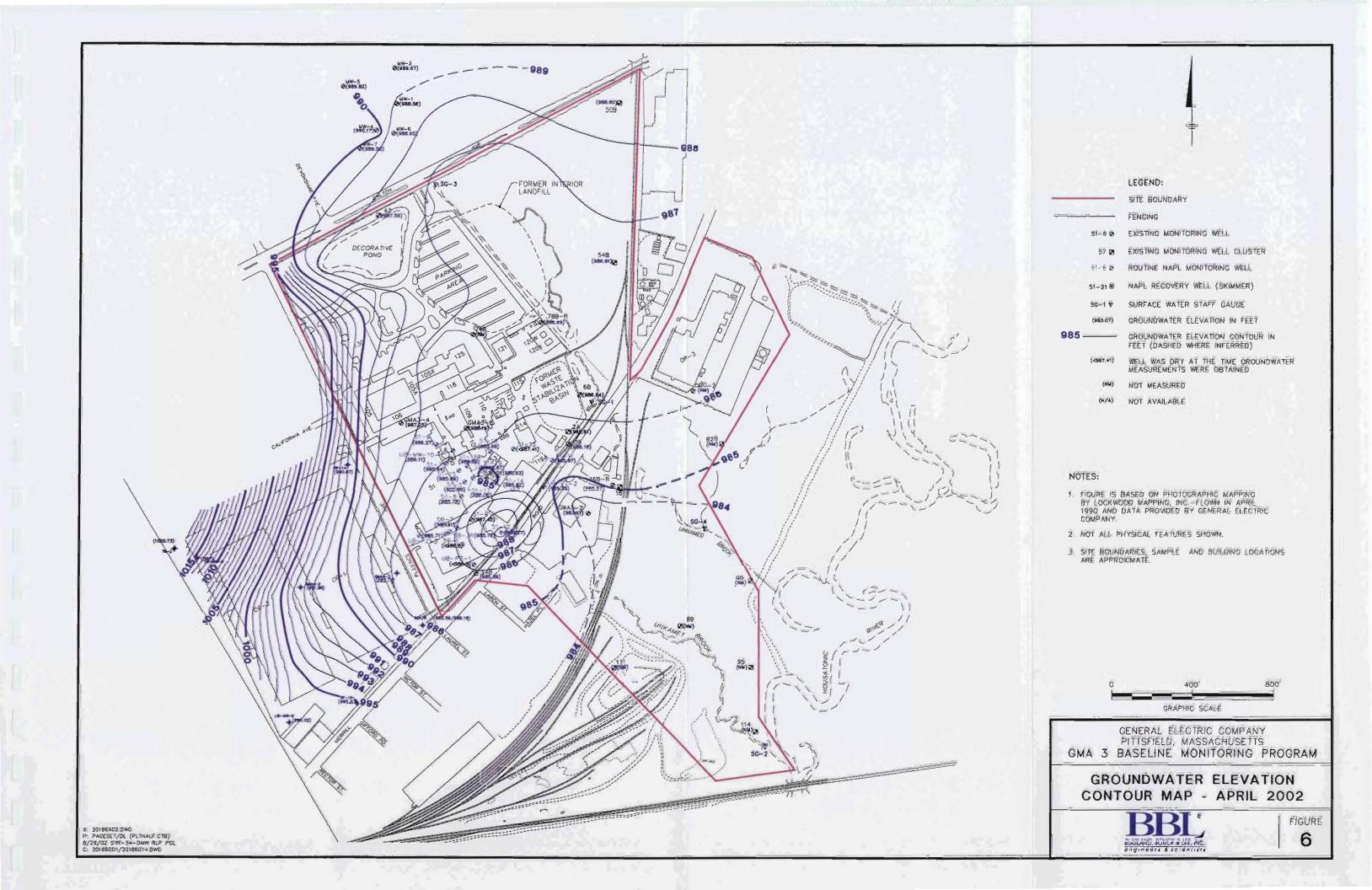


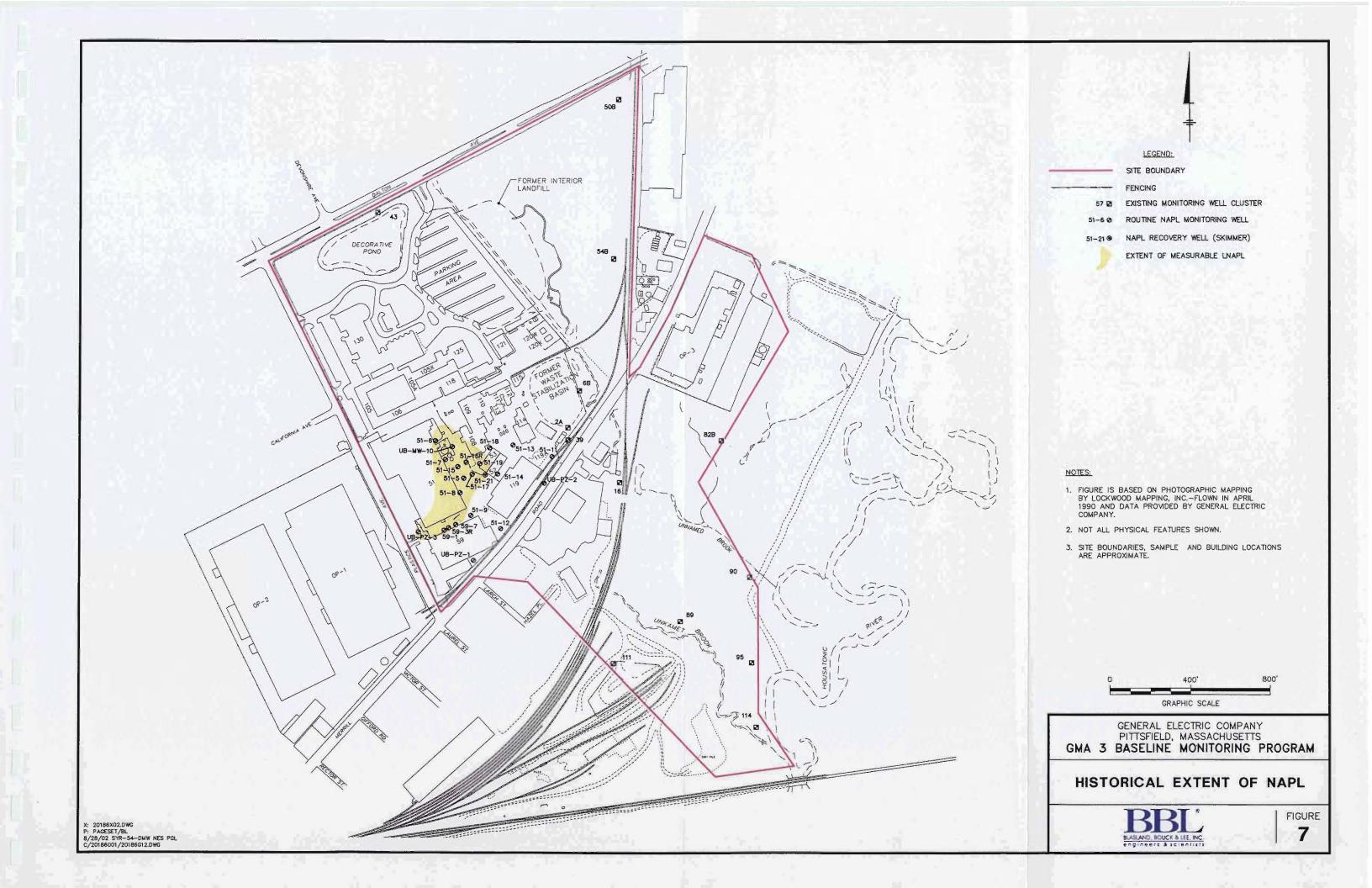


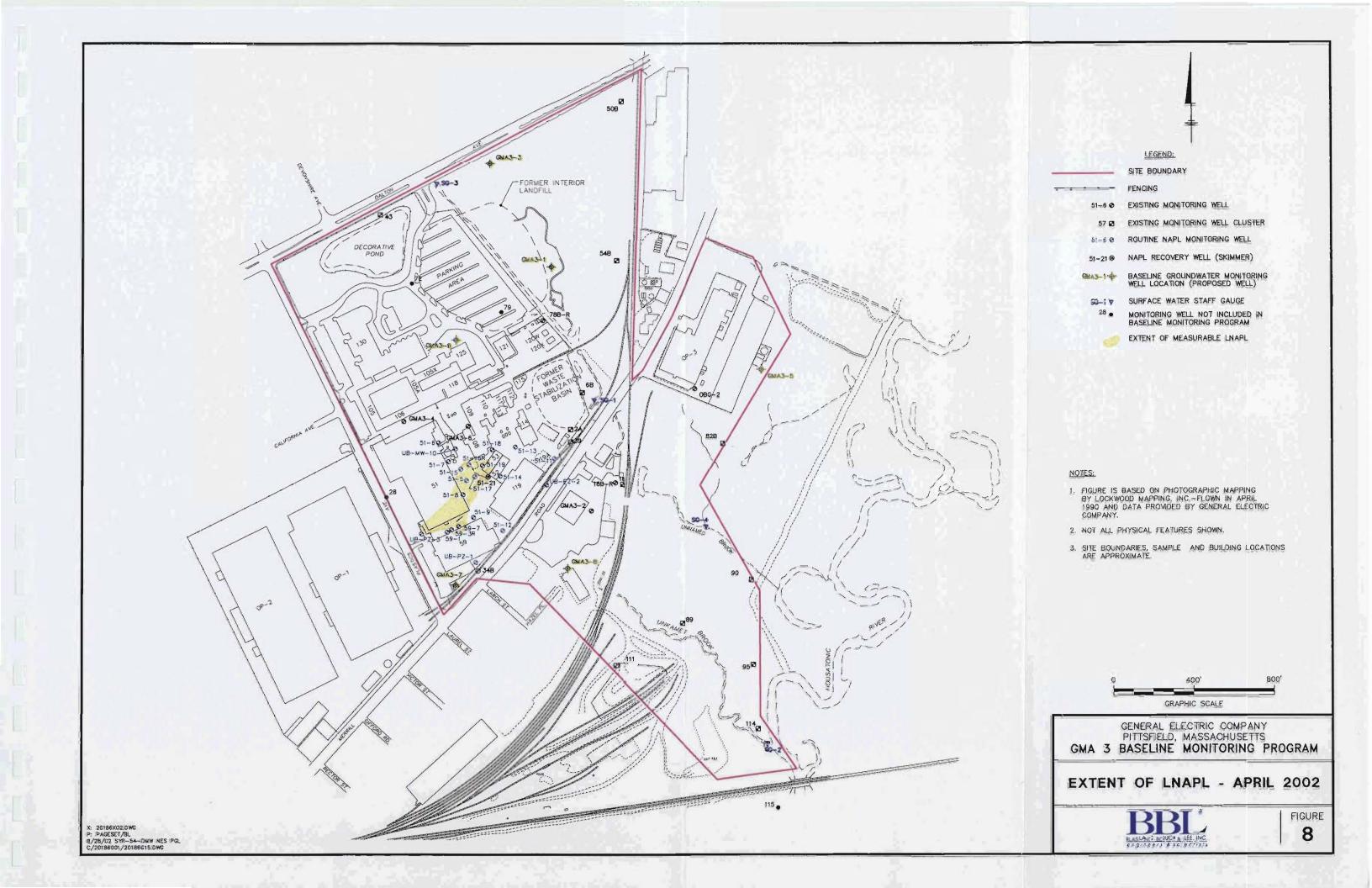












Appendices



Appendix A

Groundwater Monitoring Well Logs



Date Start/Finish: 1/31/02 Drilling Company: BBLES Driller's Name: Joe Bishop Drilling Method: Direct Push/HSA

Sampler Size: 4' x 2" ID Disposable Liner

Auger Size: 4 1/4" ID

Rig Type: Truck-mounted Power Probe 9600

Northing: 536738.1800 Easting: 139076.3700 Casing Elevation: 994.87

Borehole Depth: 16' bgs Surface Elevation: 991.80

Descriptions By: Stephen Lewitt

Well ID: 16B-R

Client: General Electric Company

Location: Groundwater Management Area 3

Pettricca Industries

444 Merrill Rd., Pittsfield, MA

-							***************************************		
	UEVIT	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
1	Δ							·	4* Diameter steel stick-up riser
	9	90-		0-4'	1.8	NA		Dark brown fine SAND and SILT, trace coarse Sand, organics, roots, moist. Same as above, trace coarse Gravel. Olive-brown fine SAND, some Silt, trace fine Gravel, moist. Brown fine SAND and SILT, little coarse Sand and fine Gravel, moist.	Concrete (0-0.8' bgs) Type #0 Silica Sand Drain (0.5' ags-1' bgs) 3/8' Hydrated Bentonite Chips (1.0-2.0' bgs) Schedule 40 PVC Riser (3.04' ags-3.08' bgs)
		285-		4-8'	0.6	NA		Same as above, some organics, little fine to coarse Gravel, cobble, moist.	Type #0 Silica Sand (2.0-13.28' bgs)
		3		8-12'	2.1	NA	# 1	Dark brown fine to medium SAND, SILT and ORGANICS, little fine Gravel, wet Olive gray fery fine SAND, SILT and ORGANICS, moist. Brown PEAT, moist. Brownnish gray fine SAND, little Silt and Organics, trace coarse Sand, moist.	Schedule 40 PVC 2* Diameter 0.010 Slot Screen (3.08-13.28* bgs)
- 1		4		12-16'	2.8	NA		Gray fine SAND with Peat, trace Wood fragments, moist-wet	PVC Cap
	er	ngi		's &	scle	EE, INC	S	Remarks: NA = Not Available/Not Applicable; bgs = below ground surface.	Water Level Data Date Depth Elev. 1/31/02 6.51 bgs 985.29

Date Start/Finish: 2/22/02 Drilling Company: BBLES Driller's Name: Jeff Bishop Drilling Method: Direct Push/HSA Sampler Size: 4' x 2" ID Disposable Liner

Auger Size: 4 1/4" ID

Rig Type: Truck-mounted Power Probe 9600

Northing: 536827.7000 Easting: 138348.8000 Casing Elevation: 996.39

Borehole Depth: 16' bgs Surface Elevation: 996.70

Descriptions By: Jeff Bishop

Well ID: 51-16R

Client: General Electric Company

Location: Groundwater Management Area 3

General Electric

1 Plastics Ave., Pittsfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	-							8* Diameter steel curl box with 1' skirt.
9.	95-	1	0-4'	2.0	NA		Asphalt Concrete. Dark brown fine SAND, trace coal and brick. Brown SILT. Brown fine SAND, little coarse Sand.	Concrete (0-0.75' bgs Type #0 Silica Sand Drain (0.5-1' bgs) Schedule 40 PVC Risi (0.31-5' bgs) 3/8' Hydrated Bentoni Chips (1-3' bgs)
5 99	90-	2	4-8'	3.8	NA		Light brown very fine SAND.	
0 98	3		8-12'	4.0	NA		Brown fine SAND, trace Silt.	Type #1 Silica Sand (3-15 bgs)
5	4	1	2-16'	4.0	NA		Dark brown coarse SAND, some fine to coarse Gravel, saturated.	Schedule 40 PVC 2* Diameter 0.020 Slot Screen (5-15' bgs) PVC Cap
				K & LE			Remarks: NA = Not Available/Not Applicable; bgs = below ground surface.	Water Level Data Date Depth Elev. 2/22/02 11.62 985.08

Date Start/Finish: 2/25/02 Drilling Company: BBLES Driller's Name: Joe Bishop Drilling Method: Direct Push/HSA Sampler Size: 4' x 2" ID Disposable Liner

Auger Size: 4 1/4" ID

Rig Type: Truck-mounted Power Probe 9600

Northing: 536501.0000 Easting: 138260.7000 Casing Elevation: 997.64

Borehole Depth: 16' bgs Surface Elevation: 997.82

Descriptions By: Jeff Bishop

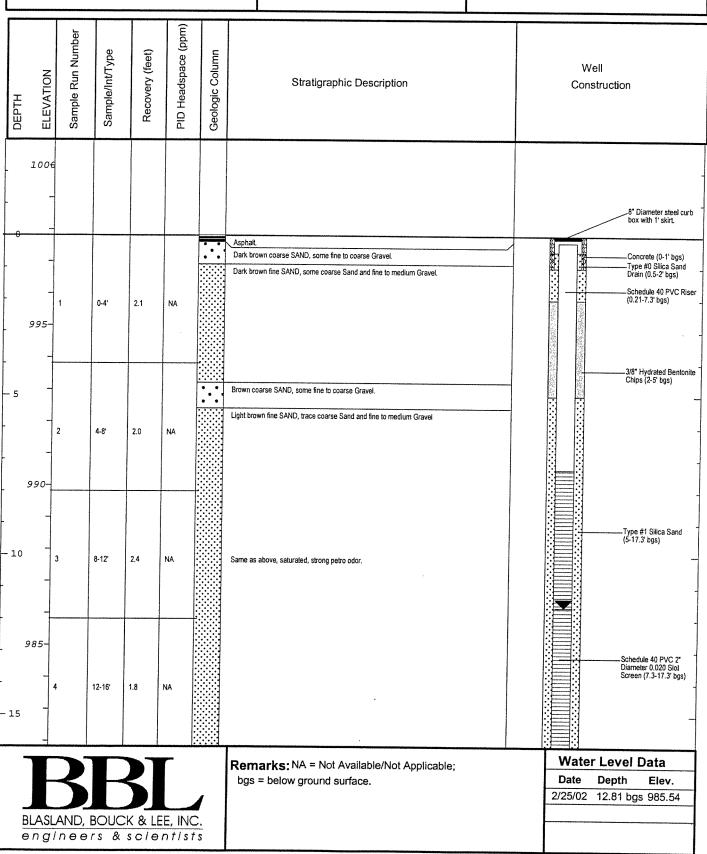
Well ID: 59-03R

Client: General Electric Company

Location: Groundwater Management Area 3

General Electric

1 Plastics Ave., Pittsfield, MA



Client:

General Electric Company

Site Location:

Groundwater Management Area 3

General Electric

1 Plastics Ave., Pittsfield, MA

Well ID: 59-03R

Borehole Depth: 16' bgs

7 1 10	SIICS AVE	J., 1 1113	ncia, ivi	i/\			
DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
980-							Schedule 40 PVC 2* Diameter 0.020 Slot Screen (7.3-17.3* bgs) Type #1 Silica Sand (5-17.3* bgs) PVC Cap
- 20 - 							
- 25						•.	
970-							
965-							
- 35						S	Water Level Data
BLASI eng	AND, E	BOUCI	K & LE	E, INC	<u>.</u>	Remarks: NA = Not Available/Not Applicable; bgs = below ground surface.	Date Depth Elev. 2/25/02 12.81 bgs 985.54

Date Start/Finish: 1/29/02 Drilling Company: BBLES Driller's Name: Joe Bishop Drilling Method: Direct Push/HSA Sampler Size: 4' x 2" ID Disposable Liner

Auger Size: 4 1/4" ID

Rig Type: Truck-mounted Power Probe 9600

Northing: 537551.8000 Easting: 138716.5000 Casing Elevation: 988.83

Borehole Depth: 12' bgs Surface Elevation: 989.11

Descriptions By: Stephen Lewitt

Well ID: 78B-R

Client: General Electric Company

Location: Groundwater Management Area 3

General Electric

1 Plastics Ave., Pittsfield, MA

<u> </u>								
ОЕРТН	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
-	990-							8° Diameter steel curb box with 1' skirt
		1	0-4'	2.3	NA		Asphalt Gray-brown fine SAND, little coarse Sand and fine to coarse Gravel, dry. Same as above, gray, trace coarse Sand and fine Gravel, moist. Same as above, some brick, wet.	Concrete (0-0.75' bgs) Type #0 Silica Sand Drain (0.5-1' bgs) Schedule 40 PVC Riser (0.28-1.82' bgs) 3/8" Hydrated Bentonite Chips (1.0-1.5' bgs)
-5	985-	2	4-8'	3.1	NA		Same as above, light gray, trace Silt, slight purple-red color with black spots. SAME AS ABOVE, light gray, trace Silt, slight purple-red color with black spots. SRICK, wet. Dive-brown SILT, little fine Sand, trace fine Gravel, wet. Park gray fine SAND, some Silt, trace medium to coarse Sand and fine to coarse Gravel, wet, petro odor.	Type #0 Silica Sand (1.5-11.82' bgs)
— 10	- 3	3	8-12'	2.3	NA	0000000	ight gray fine SAND, wet, petro odor. ark gray fine to coarse SAND and fine to coarse GRAVEL, trace brick, wet, strong petro dor.	Schedule 40 PVC 2* Diameter 0.010 Slot Screen (1.82-11.82* bgs) PVC Cap
- 9 15	75-							Water Level Data
	ngl	nee	rs &	K & LE sc/e	ntist	s	Remarks: NA = Not Available/Not Applicable; bgs = below ground surface.	Date Depth Elev. 1/29/02 2.51 bgs 1020.69

Date Start/Finish: 1/31/02 Drilling Company: BBLES Driller's Name: Joe Bishop Drilling Method: Direct Push/HSA Sampler Size: 4' x 2" ID Disposable Liner

Auger Size: 4 1/4" ID

Rig Type: Truck-mounted Power Probe 9600

Northing: 536596.4000 Easting: 138956.6000 Casing Elevation: 991.94

Borehole Depth: 12' bgs **Surface Elevation:** 992.25

Descriptions By: Stephen Lewitt

Well ID: GMA3-2

Client: General Electric Company

Location: Groundwater Management Area 3

Petricca Industries

440 Merrill Rd., Pittsfield, MA

L								
ОЕРТН	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	995-							8° Diameter steel curb box with 1' skirt
	990-	1	0-4'	1.5	NA		sphalt concrete. own fine SAND, some coarse Sand and fine to medium Gravel, dry. ay fine SAND, little Silt, trace coarse Sand, moist.	Concrete (0-1' bgs) Type #0 Silica Sand Drain (0.5-1.5' bgs) Schedule 40 PVC Riser (0.31-5.19' bgs)
- 5 -	985-	2	4-8'	2.3	NA		ve-gray SILT, little fine Sand, trace coarse Sand and fine Gravel, moist.	
- 10	-	3	8-12'	2.7	NA	+ + + + + + + + + + + + + + + + + + +	re-gray very fine SAND and SILT. wn CLAY and SILT with organics. PEAT. wn PEAT. e-gray PEAT and CLAY,moist.	Type #0 Silica Sand (3.5-15.49' bgs)
<i>9</i> - - 15	-							Schedule 40 PVC 2* Diameter 0.010 Slot Screen (5.19-15.19* bgs) PVC Cap
	ngi	nee	rs &	SK & LE	ntist	s	emarks: NA = Not Available/Not Applicable; ogs = below ground surface. plot2001/Logfiles/20187/GMA.ldf	Water Level Data Date Depth Elev. 1/31/02 6.91 bgs 985.03 Page: 1 of 1

Date Start/Finish: 1/29/02 Drilling Company: BBLES Driller's Name: Joe Bishop Drilling Method: Direct Push/HSA Sampler Size: 4' x 2" ID Disposable Liner

Auger Size: 4 1/4" ID

Rig Type: Truck-mounted Power Probe 9600

Northing: 537044.7000 Easting: 138021.8000 Casing Elevation: 994.60

Borehole Depth: 16' bgs Surface Elevation: 994.94

Descriptions By: Stephen Lewitt

Well ID: GMA3-4

Client: General Electric Company

Location: Groundwater Management Area 3

General Electric

1 Plastics Ave., Pittsfield, MA

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
					F	Asphalt	8* Diameter Steel Curb Box with 1* Skirt. Concrete (0-1* bgs)
- - -	1	0-4'	1.7	NA		Brown fine SAND, little medium to coarse Sand and fine to coarse Gravel, dry.	Type #0 Silica Sand Drain (0.5-1.5' bgs) 3/8" Hydrated Bentonite Chips (1.5-2.5' bgs) Schedule 40 PVC Riser (0.33-3.57' bgs)
. 5 990- - -	2	4-8'	1.5	NA			
_ 10 985- -	3	8-12'	2.1	NA		Nive-brown fine SAND, some Silt, little medium to coarse Sand and fine to coarse Gravel, ret.	Schedule 40 PVC 2* Diameter 0.010 Stot Screen (3.57-13.57' bgs)
- - 15 980-	4	12-16'	2.1	NA		arne as above, little Sllt, trace medium to coarse Sand and fine Gravel, wet.	Type #0 Silica Sand (2.5-13.87' bgs) PVC Cap Type #0 Silica Sand Backfil (13.87-16' bgs)
			3 CK & LE s c / e			Remarks: NA = Not Available/Not Applicable; bgs = below ground surface.	Water Level Data Date Depth Elev. 1/29/02 8.54 bgs 986.40

Date Start/Finish: 1/30/02 Drilling Company: BBLES Driller's Name: Joe Bishop Drilling Method: Direct Push/HSA Sampler Size: 4' x 2" ID Disposable Liner

Auger Size: 4 1/4" ID

Rig Type: Truck-mounted Power Probe 9600

Northing: 537021.5000 Easting: 138342.3000 Casing Elevation: 997.49

Borehole Depth: 16' bgs **Surface Elevation**: 997.74

Descriptions By: David A. Grills

Well ID: GMA3-6

Client: General Electric Company

Location: Groundwater Management Area 3

General Electric

1 Plastics Ave., Pittsfield, MA

			, , , , , , , , , , , , , , , , , , , 				
DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
100	€						
							8* Diameter Steel Curt Box with 1' Skirt
-0						Asphalt	Concrete (0-1' bgs)
	-					Brown medium to coarse SAND, little fine to medium Gravel.	
						Light brown fine SAND, little Silt, trace fine Gravel.	Type #0 Silica Sand Drain (0.5-2' bgs)
•	1	0-4'	2.0	NA			
995-	-						
							Schedule 40 PVC Rise (0.23-8' bgs)
-	ļ	ļ	-	ļ	ļ;	Moist.	
_							3/8* Hydrated Bentoni Chips (2-6' bgs)
. 5					<u> </u>	Concrete. Light brown fine SAND, little Silt, trace fine Gravel, moist.	
-	-						
	2	4-8'	2.2	NA			
990-							
_						Same as above, trace coarse Sand and fine to medium Gravel, moist.	
_							
10	3	8-12'	2.9	NA		Light brown coarse SAND, little fine Sand, Silt and fine to medium Gravel, saturated.	Schedule 40 PVC 2* Diameter 0.010 Slot
-						Black fine SAND, little gray medium to coarse Sand, trace fine to medium Gravel, saturated.	Screen (8-18' bgs)
_							
						Same as above, slight petro odor.	Type #0 Silica Sand (6-18' bgs)
985-					0	Black coarse SAND and fine to medium GRAVEL, slight petro odor, saturated.	(0-10 bys)
					00		
	4	12-16'	2.0	NA	٠		
15							
15							
		<u> </u>					Water Lavel Date
						Remarks: NA = Not Available/Not Applicable;	Water Level Data Date Depth Elev.
	5		7		,	bgs = below ground surface.	1/30/02 12.18 bgs 985.56
DI AC	SLANID	POU	N/ 0. 11	CE INIZ			
			SC/e				
	1 87 01					ognjot2001/l ogfiles/20187/GMA ldf	Page: 1 of 2

Client:

General Electric Company

Site Location:

Groundwater Management Area 3

General Electric

1 Plastics Ave., Pittsfield, MA

Well ID: GMA3-6

Borehole Depth: 16' bgs

	ISUCS A	01, 1 100	7,7010, 11				
DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
980-							PVC Cap
- 20							
975- - - - 25							-
970-							
30 -							
965- - - - 35							-
BLAS	LAND,	BOUC rs &	K & LEsc/e	E, INC	<u></u> s	Remarks: NA = Not Available/Not Applicable; bgs = below ground surface.	Water Level Data Date Depth Elev. 1/30/02 12.18 bgs 985.56

Appendix B

Field Sampling Data



Key No		FX-37	1	1	Samni	Site Nam ing Personne		MAS	- Control of the State of the S	Party P.
PID Backs	ground (ppn	n) O. (0			Dat		BKH	THE STATE OF THE S	
Well Head	Ispace (ppn	n)				. Weathe	7/23/02	Time in / O		2940
WELL INFOR	MATION		,		*******	•	1303	<u>everc</u>	asy	
WELL INFOR	MATION			TIC	BGL	P	ump Start Tim	e .0920		•
Reference Po	oint Marked o	n Casing		V			ump Stop Tim			
Height of Ref	. Pt. Relative	e to Grade		1		-	Sample Tim)	
Well Diamete	r ·			111		1	Sample II		- A	
Well Depth					54.90		Sampled for		<u>- </u>	
Screen Interv	al Depth				25-30	T			- 10000	
Water Table [Depth		***	8,55				s / HCL, 4 deg		
Intake Depth	of Pump/Tub	ing		0,00	27.5	1		Cs/4 deg. At		
								(Total) / 4 de		
Redevelop?	Y (N)							(Dissolved) /		
	\mathcal{C}							s (Total) / HN		
VELL WATER	INFORMAT	ION						s (Dissolved)	/4 deg. ASP	methods
Length of Wate			,35′		7		(X) Other			
Volume of Wat			gallon		٧ ٧	Natura	1 Atter	nuation		
Minutes of Pur		7	2 2104		1 ~	MATURE	C 71 10.			
VACUATION	INFORMATI	ON		_	1 2				•	
olume of water	removed fro	m well	~	2.0 g	al	Evacuation	Method: Baile	er 📈 Pump	. K	
id well go dry?	V _ /			•		Pump Type:	15000	prochille.	Sunta	in a gamba , a f
							<u> </u>	STESPINE.	- ferry	*
	Water	Quality Meter	Type(s) / Seria	al Numbers:	U-Z2 14	miha	Law Hire	al. 12.00 S-	2700 7 KG	. 1
		Quality Meter			U-ZZ He	meter y	How Mes	of COL /2	21mp Ho	-4
Time	Pump	Total	Water	Depth	DENERIES	meter.	Plan Ma	gh Coll p/2	ZIMP HO	<u></u>
Time	Pump Rate	Total Gallons	Water Level	Depth to	Temp.	meter pH	Cond.	Turbidity	DO	ORP
	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth	Temp. (Celcius)	рН	Cond.	Turbidity (NTU)	DO (mg/l)	
0920	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to	Temp. (Celcius)	pH 107	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l) 4.05	ORP (mV)
0920 0925	Pump Rate (L/min.) •\OO	Total Gallons Removed .132 .264	Water Level (TIC) B.60 B.60	Depth to	Temp. (Celcius) 8.08	рн 9.07 8.90	Cond. (mS/cm) 0.383	Turbidity (NTU) 97 82	DO (mg/l) 4.05 5.18	ORP- (mV) -1/2
0920 0925 0930	Pump Rate (L/min.) (D) (U) (U)	Total Gallons Removed .132 .264 .396	Water Level (TIC) 8.60 8.60 8,60	Depth to	Temp. (Celcius) 8.08 7.38 6.90	pH 9.07 8.90 8.77	Cond. (mS/cm) 0.383 0.402 0.416	Turbidity (NTU) 97 82	DO (mg/l) 4.03 5.18 5.36	ORP (mV) -112 - 93 - 88
0920 0925 0930 093 5	Pump Rate (L/min.) \(\sum_100\) \(\ldots \ldots \l	Total Gallons Removed .132 .264 . 3 96	Water Level (TIC) 8.60 8.60 8.60 8.60	Depth to	Temp. (Celcius) 6.08 7.38 6.90 7.12	pH 9.07 8.90 8.71 8.73	Cond. (mS/cm) 0.383 0.402 0.416 0.418	Turbidity (NTU) 97 82 60	DO (mg/l) 4.03 5.18 5.36 5.05	ORP- (mV) -1/7 - 93 - 88 - 93
0920 0925 0930 093 5 0940	Pump Rate (L/min.) (000 100 100 100 100	Total Gallons Removed .132 .264 .396 .528	Water Level (TIC) B.60 B.60 B.60 B.60 B.60	Depth to	Temp. (Celcius) 6.08 7.38 6.90 7.12	pH 9.07 8.90 8.71 8.73 8.70	Cond. (ms/cm) 0.383 0.402 0.416 0.418	Turbidity (NTU) 97 82 66 60 56	DO (mg/l) 4.03 5.18 5.36 5.05 4.92	0RP:- (mV) -1/7 - 93 - 88 - 93 - (00)
0920 0925 0930 093 5 0940	Pump Rate (L/min.) • \000 • \000 • \000 • \000 • \000 • \000	Total Gallons Removed .132 .264 .396 .528 .660	Water Level (TIC) \$.60 \$.60 \$.60 \$.60 \$.60	Depth to	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02	рн 9.07 8.90 8.77 8.73 8.70 8.70	Cond. (ms/cm) 0.383 0.402 0.416 0.418 0.418	Turbidity (NTU) 97 82 40 56 55	DO (mg/l) 4.03 5.18 5.36 5.05 4.92 4.91	ORP (mV) -1172 - 93 - 88 - 93 - 100
0920 0925 0930 0935 0940 0945	Pump Rate (L/min.) • \00 • \00 • \00 • \00 • \00 • \00 • \00 • \00	Total Gallons Removed .132 .264 .396 .528 .660 .792	Water Level (TIC) 8.60 8.60 8.60 8.60 8.60 8.60	Depth to	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06	9.07 8.70 8.71 8.73 8.70 8.70 8.70	Cond. (mS/cm) 0.383 2.402 0.416 0.418 0.418 0.420 0.421	Turbidity (NTU) 97 82 66 60 56 55	DO (mg/l) 4.03 5.18 5.36 5.05 4.92 4.91 4.91	ORP- (mV) -117 - 93 - 88 - 93 - 100 - 101 - 103
0920 0925 0930 093 5 0940 0945 0960	Pump Rate (L/min.) • \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Total Gallons Removed .132 .264 .396 .528 .660 .792 .924	Water Level (TIC) B.60 B.60 B.60 B.60 B.60 B.60 B.60 B.60	Depth to	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94	PH 9.07 8.70 8.73 8.70 8.70 8.48 8.48	Cond. (mS/cm) 0.383 0.402 0.416 0.418 0.418 0.420 0.421 0.423	Turbidity (NTU) 97 82 66 60 56 55	5.18 5.18 5.36 5.05 4.91 4.91 4.91	ORP- (mV) -117 -93 -85 -93 -100 -101 -103 -122
0920 0925 0930 0935 0940 0945 0960 0955	Pump Rate (L/min.) . 100 . 100 . 100 . 100 . 100 . 100 . 100 . 100	Total Gallons Removed .132 .264 .39(6 .528 .660 .792 .924 1.056 1.188	Water Level (TIC) 8.60 8.60 8.60 8.60 8.60 8.60	Depth to	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96	PH 9.07 8.90 8.77 8.73 8.70 8.48 8.66	Cond. (mS/cm) 0.383 0.402 0.416 0.418 0.418 0.420 0.421 0.421 0.423	Turbidity (NTU) 97 82 66 60 56 55 49 49	5.18 5.18 5.05 4.92 4.91 4.91 4.30 3.87	0RP- (mV) -117- -93 -88 -93 -100 -101 -103 -122
0920 0925 0930 0935 0940 0945 0960 0955 1000	Pump Rate (L/min.) 100 100 100 100 100 100 100 100 100 1	Total Gallons Removed .132 .264 .39(6 .528 .660 .792 .924 1.056 1.188	Water Level (TIC) B.60 B.60 B.60 B.60 B.60 B.60 B.60 B.60	Depth to	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96	PH 9.07 8.90 8.77 8.78 9.70 8.68 8.66 8.68	Cond. (ms/cm) 0.383 0.402 0.418 0.418 0.420 0.421 0.421 0.424 0.424	Turbidity (NTU) 97 82 66 56 56 59 49 49 49	DO (mg/l) 4.03 5.18 5.05 4.92 4.91 4.91 4.30 3.87 3.80	ORP: (mV) -1/7 -93 -93 -(00) -101 -103 -122 -127
0920 0925 0930 0935 0940 0945 0950 0955 1000	Pump Rate (L/min.) • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100	Total Gallons Removed .132 .264 .39(6 .528 .660 .792 .924 1.056 1.188	Water Level (TIC) 8.60 8.60 8.60 8.60 8.60 8.60	Depth to	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96	PH 9.07 8.90 8.77 8.73 8.70 8.48 8.66	Cond. (mS/cm) 0.383 0.402 0.416 0.418 0.418 0.420 0.421 0.421 0.423	Turbidity (NTU) 97 82 66 60 56 55 49 49	5.18 5.18 5.05 4.92 4.91 4.91 4.30 3.87	ORP- (mV) -117 -93 -85 -100 -101 -103 -122 -127
0920 0925 0930 0935 0940 0945 0950 0955 1000 1005	Pump Rate (L/min.) • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100	Total Gallons Removed .132 .264 .39(6 .528 .660 .792 .924 1.056 1.188 1.320 1.452	Water Level (TIC) \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60	Depth to Water	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96 10.73 10.62	9,07 8,90 8,77 8,73 8,70 8,70 8,66 8,66 8,66	Cond. (mS/cm) 0.383 0.402 0.416 0.418 0.418 0.420 0.421 0.423 0.424 0.424	Turbidity (NTU) 97 82 66 60 56 55 49 49 49 46	5.18 5.18 5.05 4.92 4.91 4.91 4.91 4.30 3.87 3.80	ORP- (mV) -117 -93 -85 -100 -101 -103 -122 -127 -127 -126
0920 0925 0930 0935 0940 0945 0950 0955 1000 1005	Pump Rate (L/min.) • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100	Total Gallons Removed .132 .264 .39(6 .528 .660 .792 .924 1.056 1.188 1.320 1.452	Water Level (TIC) \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60	Depth to Water	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96 10.73 10.62	9,07 8,90 8,77 8,73 8,70 8,70 8,66 8,66 8,66	Cond. (mS/cm) 0.383 0.402 0.416 0.418 0.418 0.420 0.421 0.423 0.424 0.424	Turbidity (NTU) 97 82 66 60 56 55 49 49 49 46	5.18 5.18 5.05 4.92 4.91 4.91 4.91 4.30 3.87 3.80	ORP- (mV) -117 -93 -85 -100 -101 -103 -122 -127 -127 -126
0920 0925 0930 0935 0940 0945 0950 0955 1000 1005	Pump Rate (L/min.) • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100 • 100	Total Gallons Removed .132 .264 .39(6 .528 .660 .792 .924 1.056 1.188 1.320 1.452	Water Level (TIC) \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60 \$.60	Depth to Water	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96 10.73 10.62	9,07 8,90 8,77 8,73 8,70 8,70 8,66 8,66 8,66	Cond. (mS/cm) 0.383 0.402 0.416 0.418 0.418 0.420 0.421 0.423 0.424 0.424	Turbidity (NTU) 97 82 66 60 56 55 49 49 49 46	5.18 5.18 5.05 4.92 4.91 4.91 4.91 4.30 3.87 3.80	ORP- (mV) -117 -93 -85 -100 -101 -103 -122 -127 -127 -126
0920 0925 0930 0935 0940 0946 0960 0955 1000 1005	Pump Rate (L/min.)	Total Gallons Removed .132 .264 .396 .528 .660 .792 .924 1.056 1.188 1.320 1.452 ATIONS/PRO	Water Level (TIC) 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60	Depth to Water Voc's	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96 10.73 10.62	9,07 8,70 8,73 8,73 8,70 8,70 8,66 8,66 8,66	Cond. (mS/cm) 0.383 0.402 0.418 0.418 0.420 0.421 0.423 0.424 0.424	Turbidity (NTU) 97 82 66 60 56 55 50 49 49 46 45	5.18 5.18 5.05 4.92 4.91 4.91 4.91 4.30 3.87 3.80	ORP- (mV) -117 -93 -85 -100 -101 -103 -122 -127 -127 -126
0920 0925 0930 0935 0940 0946 0960 0955 1000 1005	Pump Rate (L/min.)	Total Gallons Removed .132 .264 .396 .528 .660 .792 .924 1.056 1.188 1.320 1.452 ATIONS/PRO	Water Level (TIC) 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60	Depth to Water Voc's	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96 10.73 10.62	9,07 8,70 8,73 8,73 8,70 8,70 8,66 8,66 8,66	Cond. (mS/cm) 0.383 0.402 0.418 0.418 0.420 0.421 0.423 0.424 0.424	Turbidity (NTU) 97 82 66 60 56 55 50 49 49 46 45	5.18 5.18 5.05 4.92 4.91 4.91 4.91 4.30 3.87 3.80	ORP- (mV) -117 -93 -85 -100 -101 -103 -122 -127 -127 -126
0920 0925 0930 0935 0940 0945 0960 0965 1000 1005 1010 mal	Pump Rate (L/min.) - 100	Total Gallons Removed .132 .264 .396 .528 .660 .792 .924 1.056 1.188 1.320 1.452 ATIONS/PRO	Water Level (TIC) 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60	Depth to Water Voc's	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96 10.73 10.62	9,07 8,70 8,73 8,73 8,70 8,70 8,66 8,66 8,66	Cond. (mS/cm) 0.383 0.402 0.418 0.418 0.420 0.421 0.423 0.424 0.424	Turbidity (NTU) 97 82 66 60 56 55 50 49 49 46 45	5.18 5.18 5.05 4.92 4.91 4.91 4.91 4.30 3.87 3.80	ORP- (mV) -117 -93 -85 -100 -101 -103 -122 -127 -127 -126
0920 0925 0930 0935 0940 0945 0950 0955 1000 1005 1000 MPLE DESTIF	Pump Rate (L/min.)	Total Gallons Removed .132 .264 .396 .528 .660 .792 .924 1.056 1.188 1.320 1.452 ATIONS/PRO	Water Level (TIC) 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60	Depth to Water Voc's	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96 10.73 10.62	9,07 8,70 8,73 8,73 8,70 8,70 8,66 8,66 8,66	Cond. (mS/cm) 0.383 0.402 0.418 0.418 0.420 0.421 0.423 0.424 0.424	Turbidity (NTU) 97 82 66 60 56 55 50 49 49 46 45	5.18 5.18 5.05 4.92 4.91 4.91 4.91 4.30 3.87 3.80	ORP- (mV) -117 -93 -85 -100 -101 -103 -122 -127 -127 -126
0920 0925 0930 0935 0940 0945 0950 0955 1000 1005 1005 1010 mal	Pump Rate (L/min.)	Total Gallons Removed .132 .264 .396 .528 .660 .792 .924 1.056 1.188 1.320 1.452 ATIONS/PRO	Water Level (TIC) 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60	Depth to Water Voc's	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96 10.73 10.62	9,07 8,70 8,73 8,73 8,70 8,70 8,66 8,66 8,66	Cond. (mS/cm) 0.383 0.402 0.418 0.418 0.420 0.421 0.423 0.424 0.424	Turbidity (NTU) 97 82 66 60 56 55 50 49 49 46 45	5.18 5.18 5.05 4.92 4.91 4.91 4.91 4.30 3.87 3.80	ORP- (mV) -117 -93 -85 -100 -101 -103 -122 -127 -127 -126
0920 0925 0930 0935 0940 0945 0960 0955 1005 1005 1005 NOTIAL P NAL PURY MPLE DESTIN Laboratory: elivered Via:	Pump Rate (L/min.)	Total Gallons Removed .132 .264 .396 .528 .660 .792 .924 1.056 1.188 1.320 1.452 ATIONS/PRO	Water Level (TIC) 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60	Depth to Water Voc's	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.96 10.73 10.62	9,07 8,70 8,73 8,73 8,70 8,70 8,66 8,66 8,66	Cond. (mS/cm) 0.383 0.402 0.418 0.418 0.420 0.421 0.423 0.424 0.424	Turbidity (NTU) 97 82 66 60 56 55 50 49 49 46 45	5.18 5.18 5.05 4.92 4.91 4.91 4.91 4.30 3.87 3.80	ORP- (mV) -117 -93 -85 -100 -101 -103 -122 -127 -127 -126
0920 0925 0930 0935 0940 0945 0950 0955 1000 1005 1005 NAL PV24 MPLE DESTIN Laboratory:	Pump Rate (L/min.)	Total Gallons Removed .132 .264 .396 .528 .660 .792 .924 1.056 1.188 1.320 1.452 ATIONS/PROMOTER CONTINUE TO TO	Water Level (TIC) 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60	Depth to Water Voc's	Temp. (Celcius) 8.08 7.38 6.90 7.12 7.66 8.02 8.06 9.94 10.73 10.62 COLLECT	9,07 8,70 8,73 8,73 8,70 8,70 8,66 8,66 8,66	Cond. (mS/cm) 0.383 0.402 0.416 0.418 0.418 0.420 0.421 0.423 0.424 0.424 0.424	Turbidity (NTU) 97 82 66 60 56 55 50 49 49 46 45	DO (mg/l) 4.03 5.18 5.05 4.92 4.91 4.91 4.30 3.80 3.75	ORP- (mV) -117 -93 -86 -93 -100 -101 -103 -122 -127 -127 -126

Well No Key No	o. <u>5/-/</u>	4	······································		 Samplir	Site Name	GMA-	<u></u> З		
PID Back	kground (ppm) 0				Date	4/23/02	Time In / Ou	it reion	111:20
Well Hea	adspace (ppm)	0				Weather	Moste	londy, 40	-450F	
WELL MEON	DMATION							, ,		
WELL INFO	RMATION			TIC	BGL	7 D.,	man Charl Time			
Reference F	Point Marked or	Caeina		10	DGL		mp Start Time			
	ef. Pt. Relative			2"		- Pu	mp Stop Time			
Well Diamet		to Orace		Z"		-	Sample Time			
Well Depth				15.10'		-	Sampled for	51-14	······	
Screen Inter	rval Depth			5'-15'		-	·		ACDOEA	
Water Table				11.13'		1		:/HCL, 4 deg :s/4 deg. AS		
Intake Depth	h of Pump/Tubi	na		13.1'		1		(Total) / 4 deg		
						!		(Dissolved) /	-	05.2
Redevelop?	Y N							(Dissolved) / s (Total) / HN0		
								(Dissolved)		
WELL WATE	R INFORMAT	ION					(X) Other		. aug. Auf	metriods
Length of Wa	ater Column	3.97'			7					
Volume of W	ater in Well	0.6590	1100	·····	7		Expande	1 82608	-Vocs	
Minutes of Pr	umping	0.65gs								
		m well	Type(s) / Sei		Horiba		Method: Baile	er () Pump mph Pro	(X) Bludder	Pump
Time	Pump Rate	Total Gallons	Water	Depth		1				
	(L/min.)	1	Level (TIC)	to	Temp.	pН	Cond.	Turbidity	DO	ORP
10:25	(L/min.)	Removed	(TIC)	to Water	(Celcius)	·	(mS/cm)	(NTU)	(mg/l)	(mV)
	100ml	1	(TIC)	1	(Celcius) /0.3	6.26	(mS/cm)	(NTU) ぎる	(mg/l) ?-67	(mV)
10:30	100ml	1	(TIC) 11-15 11-15	1	(Celcius) /0.3 /0.3	6.26	(mS/cm) j.35 j.47	(NTU) ぎる 37	(mg/l) 8.67 6.41	(mV) 93 87
10:30 10:35	100ml 100ml 100ml	Removed	(TIC) 11.15 11.15	1	(Celcius) /0.3 /0.3 9.9	6.26	(mS/cm) j. 35 j. 47 j. 52	(NTU) 56 37 25	(mg/l) 2.67 6.41 5.60	(mV) 73 87 91
10:30 10:35 10:40	100ml 100ml 100ml	Removed	(TIC) ii. 15 ii.15 ii.15 ii.16	1	(Celcius) 10.3 10.3 9.9 9.7	6.26 6.26 6.36 6.33	(mS/cm) j.35 j.47 j.52 j.51	(NTU) 56 37 25 20	(mg/l) 8.67 6.41 5.60 5.35	(mV) 93 87 91 93
10:30 10:35 10:40 10:45	100.ml 100.ml 100.ml 100.ml	Removed /	(TIC) 11.15 11.15 11.16 11.16	1	(Celcius) 10.3 10.3 9.9 9.7 9.7	6.26 6.26 6.36 6.33 6.30	(mS/cm) 1.35 1.47 1.52 1.51 1.48	(NTU) 56 37 25 20 19	(mg/l) 8.67 6.41 5.60 5.35 5.24	(mV) 93 87 91 93 92
10:30 10:35 10:40 10:45 10:50	100.ml 100.ml 100.ml 100.ml 170.ml 170.ml	Removed /	(TIC) //- 15 //- 15 //- 15 //- 15 //- 16 //- 16 //- 16 //- 16	1	(Celcius) 10.3 10.3 9.9 9.7 9.7 10.0	6.26 6.26 6.36 6.33 6.30	(mS/cm) 1.35 1.47 1.52 1.51 1.48 1.50	(NTU) 56 37 25 20 19 15	(mg/l) 8.67 6.41 5.60 5.35 5.24 5.10	(mV) 73 87 91 93 92 82
10:30 10:35 10:40 10:45 10:50	100.ml 100.ml 100.ml 100.ml	Removed /	(TIC) //- 15 //- 15 //- 15 //- 16 //- 16	1	(Celcius) 10.3 10.3 9.9 9.7 9.7	6.26 6.26 6.36 6.33 6.30	(mS/cm) 1.35 1.47 1.52 1.51 1.48	(NTU) 56 37 25 20 19	(mg/l) 8.67 6.41 5.60 5.35 5.24	(mV) 93 87 91 93 92
10:30 10:35 10:40 10:45 10:50	100.ml 100.ml 100.ml 100.ml 170.ml 170.ml	Removed /	(TIC) //- 15 //- 15 //- 15 //- 15 //- 16 //- 16 //- 16 //- 16	1	(Celcius) 10.3 10.3 9.9 9.7 9.7 10.0	6.26 6.26 6.36 6.33 6.30	(mS/cm) 1.35 1.47 1.52 1.51 1.48 1.50	(NTU) 56 37 25 20 19 15	(mg/l) 8.67 6.41 5.60 5.35 5.24 5.10	(mV) 73 87 91 93 92 82
10:30 10:35 10:40 10:45 10:50	100.ml 100.ml 100.ml 100.ml 170.ml 170.ml	Removed /	(TIC) //- 15 //- 15 //- 15 //- 15 //- 16 //- 16 //- 16 //- 16	1	(Celcius) 10.3 10.3 9.9 9.7 9.7 10.0	6.26 6.26 6.36 6.33 6.30	(mS/cm) 1.35 1.47 1.52 1.51 1.48 1.50	(NTU) 56 37 25 20 19 15	(mg/l) 8.67 6.41 5.60 5.35 5.24 5.10	(mV) 73 87 91 93 92 82
10:30 10:35 10:40 10:45 10:50	100.ml 100.ml 100.ml 100.ml 170.ml 170.ml	Removed /	(TIC) //- 15 //- 15 //- 15 //- 15 //- 16 //- 16 //- 16 //- 16	1	(Celcius) 10.3 10.3 9.9 9.7 9.7 10.0	6.26 6.26 6.36 6.33 6.30	(mS/cm) 1.35 1.47 1.52 1.51 1.48 1.50	(NTU) 56 37 25 20 19 15	(mg/l) 8.67 6.41 5.60 5.35 5.24 5.10	(mV) 73 87 91 93 92 82
10:30 10:35 10:40 10:45 10:50 10:55	100.ml 100.ml 100.ml 100.ml 170.ml 170.ml	Removed /	(TIC) //- 15 //- 15 //- 15 //- 15 //- 16 //- 16 //- 16 //- 16	1	(Celcius) /0.3 /0.3 9.9 9.7 9.7 /0.0	6.26 6.36 6.33 6.30 6.33	(mS/cm) j. 35 1.47 l. 52 l.51 l.48 l.50 l.49	(NTU) 56 37 25 20 19 15 14	(mg/l) 8.67 6.41 5.60 5.35 5.24 5.10 5.18	(mV) 73 87 91 93 92 82 86
10:30 10:35 10:40 10:45 10:50 10:55	100.ml 100.ml 100.ml 100.ml 1170.ml 1170.ml	Removed / / / / / / / / / / / / / / / / / /	(TIC) //- 15 //- 15 //- 15 //- 15 //- 16	1	(Celcius) 10.3 10.3 9.9 9.7 9.7 10.0	6.26 6.26 6.36 6.33 6.30	(mS/cm) 1.35 1.47 1.52 1.51 1.48 1.50	(NTU) 56 37 25 20 19 15	(mg/l) 8.67 6.41 5.60 5.35 5.24 5.10	(mV) 73 87 91 93 92 82
10:35 10:35 10:45 10:45 10:50 10:55	100.ml 100.ml 100.ml 100.ml 140.ml 140.ml 140.ml	/ I I	(TIC) //- /5 //- /5 //- /5 //- /5 //- /5 //- /6 //- //- //- //- //- //- //- //- //- //	Water	(Celcius) 10.3 10.3 9.9 9.7 9.7 10.0 9.9	6.26 6.36 6.33 6.30 6.33 6.32	(mS/cm) 1.35 1.47 1.52 1.51 1.48 1.50 1.49	(NTU) 56 37 25 20 19 15 14	(mg/l) 8.67 6.41 5.60 5.35 5.24 5.10 5.18	(mV) 73 87 91 93 92 82 86
AMPLE DES Laboratory Delivered Via	100.ml 100.ml 100.ml 100.ml 100.ml 1140.ml 1140.ml 1140.ml 1140.ml 1140.ml 1140.ml 1140.ml	/ I I	(TIC) //- /5 //- /5 //- /5 //- /5 //- /5 //- /6 //- //- //- //- //- //- //- //- //- //	Water	(Celcius) 10.3 10.3 9.9 9.7 9.7 10.0 9.9 Part : Clarate :	6.26 6.36 6.33 6.30 6.33 6.32	(mS/cm) 1.35 1.47 1.52 1.51 1.48 1.50 1.49 1.49 1.48 1.50 1.49	(NTU) 56 37 25 20 19 15 14 10 10 10 10 10	(mg/l) 8.67 6.41 5.60 5.35 5.24 5.10 5.18	(mV) 73 87 91 92 92 82 86

Well No.		39 D	The Carry September 2000 In 1982		**	Site Name				The second of th
	And the section of th	FX-	37	3 3 3 a	Sampli	ing Personne		AA S	े के दिल्ली हैं हैं कि हैं। जिस्से हैं	entradic cons
PID Backs	ground (ppr	m) O	0.0			Date		Time in / C	AL ASSESSMENT OF THE SECOND	
Well Head	ispace (ppr	m)		***************************************	and the same of th	, Weathe				11220
						•	-305	Sin	ny	
VELL INFOR	MATION			•				•	0	
				TIC	BGL	Pt	ımp Start Tim	e 1129	5	
Reference Po				V		Pt	ump Stop Time		_	
Height of Ref	. Pt. Relativ	e to Grade		7			Sample Time			
Well Diamete	r ·			411		7	Sample ID			
Well Depth		***		66.03		7	Sampled fo			
Screen Interv	al Depth				56-66	.]	. '		g. ASP 95-1	
Water Table [Depth			6.65				Cs/4 deg. A		
Intake Depth	of Pump/Tub	oina			n(01'	-				
									eg. ASP 95-3	
edevelop?	Y(N)								4 deg. ASP	
									03, 4 deg. A	
ELL WATER	INFORMAT	TION							/4 deg. ASP	methods
ength of Wate		59.3	Q'		1		(X) Other			
olume of Wat		1-113	ω		-	11 .	1 1	111	_1_	
linutes of Pun		50	^			H-Nat	ural	Atten	wteen	1
		الرسيد ن	<u> </u>	11 -	-	FX	ural and ed	1/000		*
/ACUATION	INFORMAT	ION	•	4.5	, ,	4	uno eo	VOC	~ >	•
olume of water	r removed fro	om well	~	COURT	gal	Evacuation 1	Method: Baile	or () D	. Ah	्रीय अभिनेत्राच्या स्ट
d well go dry?	YA	_)	Pump Type	Viction. Dalle	T 1 Tunk) (\(\sigma\)	ng ngangan ngangan ngangan nganggan
		Quality Meter	er Type(s) / Ser	ial Numbers:	11 22 11	Lik -	15co 70	ISTAIL	-trimp	
			, , , , , , , , , , , , , , , , , ,	a ranbors.	0-26 14	mion F	low the	ough i	<i>u/</i>	
	Pump	Total	Water	Depth				1		- 17 - 17 -
Time	Rate	Gallons	Level	to	Temp.	pН	Cond.	Turbidity	DO	ORP-
125	(Umin.) 350	Removed		Water	(Celcius)		(mS/cm)	(NTU)	(mg/l)	(mV) =
	,350	.462	7.20	ļ	10.66	8.85	,309	32	2.36	-2
	. " > ()	1 4/4	7.50	1	10.46	8,75	.308	28	1,64	-14:22
1130				1						10 1
1135	ر35 <i>0</i>	1,39	7.85		10.71	8.57	.309	22	0.72	-22-
135 140	,350 ,350	1.39	7.85			8.55	.309			
135 140 1145	.350 .350 .350	1.39	7.85		10.71		.307	22	0.78	~30
1135 1140 1145 1150	.350 .350 .350	1.39 1.85 2.31 2.77	7.85 7.94 8.07 8.12		10.71	8.55	.307 .309		0.78	-30 - -30 -
1135 1140 1145 1150 1165	.350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23	7.85		10.71	8,55 8,55 8,55	.307 .309 .309	2Z 2Z ZZ	0.78	-30 -30 -30
1135 1140 1145 1150 1165 200	.350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.09	7.85 7.94 8.07 8.12 8.19 8.20		10.71	8,55 8,55 8,55 8,55	.307 .309 .309 .307	2Z 2Z	0.78 0.86 0.65 0.72	-30 -30 -38 -42
135 140 1145 1150 1165 200	.350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23	7.85 7.94 8.07 8.12 8.19		10.71 10.80 10.64 10.55	855 855 855 855 855	.307 .309 .309 .307 .309	2Z 2Z 2Z 20 20	0.78 0.86 0.65 0.72	-30 -36 -38 -42 -44
135 140 1145 1150 1165 200	.350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.09	7.85 7.94 8.07 8.12 8.19 8.20		10.71 10.80 10.64 10.55 10.56	8,55 8,55 8,55 8,55	.307 .309 .309 .307	2Z 2Z ZZ 20	0.78 0.86 0.65 0.72	-30 -30 -38 -42
135 140 1145 1150 1165 20 6	.350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.09	7.85 7.94 8.07 8.12 8.19 8.20		10.71 10.80 10.64 10.55 10.56	855 855 855 855 855	.307 .309 .309 .307 .309	2Z 2Z 2Z 20 20	0.78 0.86 0.65 0.72	-30 -36 -38 -42 -44
135 140 1145 1150 1165 20 6	.350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.09	7.85 7.94 8.07 8.12 8.19 8.20		10.71 10.80 10.64 10.55 10.56	855 855 855 855 855	.307 .309 .309 .307 .309	2Z 2Z 2Z 20 20	0.78 0.86 0.65 0.72	-30 -36 -38 -42 -44
1135 1140 1145 1150 1165 1200 1205	.350 .350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.09 4.15	7.85 7.94 8.07 8.12 8.19 8.20 8.25		10.71 10.80 10.64 10.55 10.56	855 855 855 855 855	.307 .309 .309 .307 .309	2Z 2Z 2Z 20 20	0.78 0.86 0.65 0.72	-30 -36 -38 -42 -44
135 140 1145 1150 1165 20 5	.350 .350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.09 4.15	7.85 7.94 8.07 8.12 8.19 8.20 8.25	* Voc's	10.71 10.80 10.64 10.55 10.56 10.53	8.55 8.55 8.55 8.55 8.55	.309 .309 .309 .309 .309	22 22 22 20 20 19	0.78 0.86 0.65 0.72 0.60	-30 -36 -38 -42 -44 -45
1135 1140 1145 1150 1165 200 1206	.350 .350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.69 4.15	7.85 7.94 8.07 8.12 8.19 8.20 8.25		10.71 10.80 10.64 10.55 10.56 10.53 10.54	8.55 8.55 8.55 8.55 8.55 8.55	.307 .309 .309 .307 .309 .309	22 22 22 20 20 19	0.78 0.86 0.65 0.72 0.60	-30 -36 -38 -42 -44
1135 1140 1145 1150 1165 200 1206	.350 .350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.69 4.15	7.85 7.94 8.07 8.12 8.19 8.20 8.25		10.71 10.80 10.64 10.55 10.56 10.53 10.54	8.55 8.55 8.55 8.55 8.55 8.55	.307 .309 .309 .307 .309 .309	22 22 22 20 20 19	0.78 0.86 0.65 0.72 0.60	-30 -36 -38 -42 -44 -45
1136 1140 1145 1150 1165 1206 1206	.350 .350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.69 4.15	7.85 7.94 8.07 8.12 8.19 8.20 8.25	31D. CL	10.71 10.80 10.64 10.55 10.53 10.53	8.55 8.55 8.55 8.55 8.55	.307 .309 .309 .309 .309	22 22 22 20 20 19	0.78 0.86 0.65 0.72 0.60	-30 -36 -38 -42 -44 -45
1135 1140 1145 1150 1165 1200 1206 al	.350 .350 .350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.69 4.15	7.85 7.94 8.07 8.12 8.19 8.20 8.25	31D. CL	10.71 10.80 10.64 10.55 10.53 10.53	8.55 8.55 8.55 8.55 8.55	.307 .309 .309 .309 .309	22 22 22 20 20 19	0.78 0.86 0.65 0.72 0.60	-30 -36 -38 -42 -44 -45
1135 1140 1145 1150 1165 1200 1206 al	.350 .350 .350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.69 4.15	7.85 7.94 8.07 8.12 8.19 8.20 8.25	31D. CL	10.71 10.80 10.64 10.55 10.53 10.53	8.55 8.55 8.55 8.55 8.55	.307 .309 .309 .309 .309	22 22 22 20 20 19	0.78 0.86 0.65 0.72 0.60	-30 -36 -38 -42 -44 -45
1136 1140 1145 1150 1165 1200 1206 al	.350 .350 .350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.69 4.15	7.85 7.94 8.07 8.12 8.19 8.20 8.25	31D. CL	10.71 10.80 10.64 10.55 10.53 10.53	8.55 8.55 8.55 8.55 8.55	.307 .309 .309 .309 .309	22 22 22 20 20 19	0.78 0.86 0.65 0.72 0.60	-30 -36 -38 -42 -44 -45
1135 1140 1145 1150 1165 1200 1206 al CELLANEOU VITIAL PU	.350 .350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.69 4.15	7.85 7.94 8.07 8.12 8.19 8.20 8.25	31D. CL	10.71 10.80 10.64 10.55 10.53 10.53	8.55 8.55 8.55 8.55 8.55	.307 .309 .309 .309 .309	22 22 22 20 20 19	0.78 0.86 0.65 0.72 0.60	-30 -36 -38 -42 -44 -45
1136 1140 1145 1150 1165 1200 1206	.350 .350 .350 .350 .350 .350	1.39 1.85 2.31 2.77 3.23 3.69 4.15	7.85 7.94 8.07 8.12 8.19 8.20 8.25	31D. CL	10.71 10.80 10.64 10.55 10.53 10.53 10.54	8.55 8.55 8.55 8.55 8.55	.307 .309 .309 .309 .309 .309	22 22 22 20 20 19	0.78 0.86 0.65 0.72 0.60	-30 -36 -38 -42 -44 -45

12591543.xls

BLASLAND, BOUCK LEE, INC.

The

6/9/99

Well No. Key No. PID Backg Well Head			······································		Camelia	Site Name	GMA-3			
					Sampiii	ng Personnel	GAR/JC	M		
Men Head	ispace (ppm					Weather	4/23/02	i ime in / Oi	ut <u>//:30//</u>	3:15
	,					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Mostly o	ABLAY 140	, y <u>S</u> · O/-	······································
WELL INFORI	MATION									
				TIC	BGL	Pu	mp Start Time	e 12505	•	
	oint Marked or			Yes		Pu	mp Stop Time	e 13:60		
Height of Ref.	. Pt. Relative	to Grade		- 4"		J	Sample Time	12:55		
Well Diameter	er			Z"			Sample ID	GMR3	-4	······································
Well Depth				13.85'			Sampled for	r.		
Screen Intervi	ral Depth			13.57 - B.57			() VOCs	s / HCL, 4 dec	g. ASP 95-1	
Water Table D	Depth			7.35'				Cs/4 deg. AS		
Intake Depth of	of Pump/Tubi	ng		10.6'				(Total) / 4 de		
								(Dissolved) /		
Redevelop?	Y N							s (Total) / HN		
								s (Dissolved)		
VELL WATER					······································		(X) Other		**	
Length of Wate		6.5			_			· · · · · · · · · · · · · · · · · · ·		
17	ter in Well	1.00	.llon				Expanded	85603-	VOC3	
		 								
		1.06 3.]					
Minutes of Pur	mping									
Minutes of Pur	mping INFORMATI	ON		ν и.]	_				
Minutes of Pur EVACUATION olume of wate	mping INFORMATION OF removed from	ON		4 gallon:] <u>4</u>		Method: Baile			
Minutes of Pur EVACUATION olume of wate	INFORMATION OF THE PROPERTY OF	ON m well		•		Pump Type:				mp.
Minutes of Pur EVACUATION olume of wate	INFORMATION OF THE PROPERTY OF	ON m well		4 gallon		Pump Type:	Method: Baile			mp.
Minutes of Pur EVACUATION olume of wate	INFORMATION INFORMATION OF removed from OF Y N Water	ON m well Quality Meter	Type(s) / Se	rial Numbers:		Pump Type:				mp.
Minutes of Pur EVACUATION olume of wate	INFORMATION OF THE PROPERTY OF	ON m well		•		Pump Type: - U ≳ ≳	QED San	nple Prob	Blackelow Pu	<u> </u>
Minutes of Pur EVACUATION Volume of wate Did well go dry?	INFORMATION OF THE PROPERTY OF	ON m well Quality Meter	Type(s) / Se	rial Numbers:	Horiba	Pump Type:			Blackelen Pu DO	ORP
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time	INFORMATION OF THE PUMP Rate	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level	Depth	Horiba Temp.	Pump Type: - U ≳ ≳	Cond. (mS/cm)	Turbidity	DO (mg/l)	ORP (mV)
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time	INFORMATION OF THE PUMP Rate (L/min.)	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level (TIC)	Depth	Horiba Temp. (Celcius)	Pump Type: - ひ さ と pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l) 9.48	ORP (mV)
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time	INFORMATION OF THE PUMP Rate (L/min.)	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level (TIC)	Depth	Temp. (Celcius)	Pump Type: - 4 2 2 pH 6.87	Cond. (mS/cm) 0.355 0.366	Turbidity (NTU) 630	DO (mg/l) 9.48 7.21	ORP (mV) FC SF
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time i 2: (0	NFORMATION OF THE PUMP Rate (L/min.)	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level (TIC) 7.40	Depth	Horiba: Temp. (Celcius) 12.9 13.8	Pump Type: - U > 2 pH	Cond. (mS/cm) 0.355 0.364	Turbidity (NTU) 630 999 [†] 900	DO (mg/l) 9.48 7.21 6.77	ORP (mV) 7C 88
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time i 2: (0	NFORMATION OF THE PUMP Rate (L/min.) 230ml 160ml	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level (TIC) 7.40 7.41' 7.42'	Depth	Temp. (Celcius) 12.9 13.8 14.3	Pump Type: - 4	Cond. (mS/cm) 0.355 0.366 0.371 0.363	Turbidity (NTU) 630 999+ 900 340	DO (mg/l) 9.48 7.21 6.97 6.90	ORP (mV) 70 58 86 85
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time / 2: / 0 / 2: / 5 / 2: / 30	INFORMATION OF THE PUMP Rate (L/min.) 230ml 160ml 160ml	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level (TIC) 7.40 7.41' 7.42' 7.43	Depth	Temp. (Celcius) 12.9 13.8 14.3	Pump Type: - U ≥ ≥ - pH - & 5 / - & 5 4 - & 8 2 - & 80 - & 79	Cond. (mS/cm) 0.355 0.366 0.371 0.363	Turbidity (NTU) 630 999 [†] 900 340 140	DO (mg/l) 9.48 7.21 6.97 7.11	ORP (mV) FC \$8 85 85
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time i 2. (0 /2. / 5 /2. /	Pump Rate (L/min.) 230ml 160ml 160ml	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level (TIC) 7. 40 7.41 7.42 7.43 7.40	Depth	Temp. (Celcius) 12.9 13.8 14.3 14.1 14.0	Pump Type: - U ≥ ≥ - DH - ST - ST	Cond. (mS/cm) 0.355 0.364 0.363 0.353 0.353	Turbidity (NTU) 630 999 [†] 900 340 140	DO (mg/l) 9.48 7.21 6.97 6.90 7.11 7.36	ORP (mV) 7C 88 86 85 84 87
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time i 2. (0 /2. / 5 /2. /	Pump Rate (L/min.) 230ml 160ml 160ml	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level (TIC) 7.40 7.41 7.42 7.43 7.40 7.40	Depth	Temp. (Celcius) /z. 9 13.8 14.3 14.1 14.0	Pump Type: - U ≥ ≥ - DH - ST - ST	Cond. (mS/cm) 0.355 0.366 0.371 0.363 0.353 0.348	Turbidity (NTU) 630 999 [†] 900 340 140 95	DO (mg/l) 9.48 7.21 6.97 6.90 7.11 7.36 7.58	ORP (mV) FC 88 86 85 84 85 85
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time iz. (0 iz. 15 iz. 20 z. 25 z. 30 z. 35 z. 40 z. 45	Pump Rate (L/min.) 230ml 160ml 160ml 160ml	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level (TIC) 7.40 7.41 7.42 7.43 7.40 7.40 7.42	Depth	Temp. (Celcius) 12.9 13.8 14.3 14.1 14.0 14.0	Pump Type: -U \(\cdot \cdot \) pH 6.87 6.82 6.80 6.79 6.78 6.78	Cond. (mS/cm) 0.355 0.364 0.371 0.363 0.353 0.348 0.348	Turbidity (NTU) 630 999 [†] 900 340 140 95	DO (mg/l) 9.48 7.21 6.97 6.90 7.11 7.36 7.58 7.69	ORP (mV) 5C 88 86 85 84 85 85 85
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time i 2. (O) i 2. (5) i 2. (7) i 3. (7) i 4. (7) i 4. (7) i 4. (7) i 5. (7) i 5. (7) i 6. (7) i 7) i 7) i 7) i 7) i 8) i 8	Pump Rate (L/min.) 230ml 160ml 160ml 160ml	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level (TIC) 7.40 7.40 7.40 7.42 7.42 7.43 7.40 7.42 7.41	Depth	Temp. (Celcius) 12. 9 13. 8 14.3 14.1 14.0 14.0 13.9	Pump Type: - U ≥ ≥ - DH - ST - ST	Cond. (mS/cm) 0.355 0.366 0.371 0.363 0.353 0.348	Turbidity (NTU) 630 999 [†] 900 340 140 95	DO (mg/l) 9.48 7.21 6.97 6.90 7.11 7.36 7.58	ORP (mV) FC 88 86 85 84 85 85
Minutes of Pur EVACUATION /olume of wate Did well go dry? Time iz. (0 iz. 15 iz. 20 z. 25 z. 30 z. 35 z. 40 z. 45	Pump Rate (L/min.) 230ml 160ml 160ml 160ml	ON m well Quality Meter Total Gallons	Type(s) / Se Water Level (TIC) 7.40 7.40 7.40 7.42 7.42 7.43 7.40 7.42 7.41	Depth	Temp. (Celcius) 12. 9 13. 8 14.3 14.1 14.0 14.0 13.9	Pump Type: -U \(\cdot \cdot \) pH 6.87 6.82 6.80 6.79 6.78 6.78	Cond. (mS/cm) 0.355 0.364 0.371 0.363 0.353 0.348 0.348	Turbidity (NTU) 630 999 [†] 900 340 140 95	DO (mg/l) 9.48 7.21 6.97 6.90 7.11 7.36 7.58 7.69	ORP (mV) 5C 88 86 85 84 85 85 85
12:10 12:15 12:20 2:25 2:30 2:35 2:40 2:45 2:50	Pump Rate (L/min.) 230ml 160ml 160ml 160ml	ON m well Quality Meter Total Gallons Removed	Type(s) / Se Water Level (TIC) 7.40 7.40 7.40 7.42 7.42 7.43 7.40 7.42 7.41	Depth	Temp. (Celcius) 12. 9 13. 8 14.3 14.1 14.0 14.0 13.9	Pump Type: -U \(\cdot \cdot \) pH 6.87 6.82 6.80 6.79 6.78 6.78	Cond. (mS/cm) 0.355 0.364 0.371 0.363 0.353 0.348 0.348	Turbidity (NTU) 630 999 [†] 900 340 140 95	DO (mg/l) 9.48 7.21 6.97 6.90 7.11 7.36 7.58 7.69	ORP (mV) 5C 88 86 85 84 85 85 85

Well No.		m A 1 . N	-39-E	mente de la		- J				
	Control of the last	N/A	31-0		Samnlii	Site Name		144	energia e e e e e e e e e e e e e e e e e e e	MITTING .
	round (ppm		0		0ap	Date		TCH / D	GOLLS	
	ispace (ppm		.0			. Weather		Zime in 10		0/0930
		′	<u> </u>	······································		,		AU F	SIZUY	
WELL INFOR	MATION			*						* .
				TIC	BGL	Pt	ımp Start Time	08:05	<u>.</u>	4
Reference Po	oint Marked or	n Casing		Ý			ımp Stop Time			
Height of Ref			~~~~~ <u>~~</u>	1-1-		1	Sample Time			
Well Diamete				4"			Sample III	-		
Well Depth			***************************************	~ 235	,	7	•		39-E	
Screen Interv	al Denth			1 2 2 3	225:-2	461	Sampled fo		100	
Water Table I			***************************************	6.05		4°,		/ HCL, 4 deg		
Intake Depth			***************************************	230	8	-		Cs/4 deg. A		
make Debtii	or Pullip/Tubl	ng		1200	144				g. ASP 95-3	
Dadamalana	v (ii)								4 deg. ASP	
Redevelop?	Y(N)								O3, 4 deg. At	
INCOME A LACE OF THE SECOND							() Metals	(Dissolved)	/4 deg. ASP	methods
WELL WATER			2000		· ·		(人) Other	(Specify)		
Length of Wat		1 2	28.95	***************************************	-		THE R	PROPERTY.		
Volume of Wa			- ,		_	*	NATURA	ATTO	311/12	i
Minutes of Pur	mping		do			/ينم	CXPAND	27) In	00 H 1 1010	
EVACUATION	NEODMATI	011	•			*	CAHPU	20 000	<i>-</i> 2	•
			~	3.5	ľ					
Volume of water		m well		2.5	ga 1	Evacuation	Method: Baile	er (💢 Pump	()	
Did well go dry?					-	Pump Type:	1500 15	SO PORTA	BLE PUMI	an en egammalfrer een gagen B
	Water	Quality Meter	Type(s) / Seri	al Numbers:	HOCIBA	<u>U-22</u>			, ,	
	Pump	Total	Water	Depth	T	7	1	7		The same of the sa
Time	Rate	Gallons	Level	to	Temp.	pН	Cond.	Turbidity	DO	CONT.
	(L/min.)	Removed	(TIC)	Water	(Celcius)	P	(mS/cm)	(NTU)	(mg/l)	ORP (mV)
0805	.200	,264	6,20		10.69	7.17	e110	88	3,24	16-
0810	.200	,528	6.50		10.37	6.98	.149	990	0.42	-59
0815	.200	.792	6.50		10.39	6.93	160	990	6,36	
0820	1200	1.056	6.50		10.39	6,95	,194	990	0.23	- 48 -67
0825	+200	1.370	6.51		10.42	7.03	. 254			
0850	200	1.584	6.51		10.58	7.70		580	0-49	-108
0835	: 20b	1.848	6.52				.289	299	0.61	-223
<i>0</i> 840	,200	2.112	653	·····	10.50	7.62	.286	102	1.09	- Zoo
0845	1200	2,376	453		10.09	7.58	202.	_53	1.87	-185
0860	1200			·····	10.20	7.56	.244	42	51.0	-187
०५ ५५		7.640	6.53		10,45	7.60	, 222	36	0.22	-178
Final 0900	.200	2,904	653		10.56	7,39	.198	4	0,00	-143
-mai O 100	,200	3.168	6.54		10.50	7.36	.198	4	0,00	-140
MISCELLANEO	lie Operny	4.TIONS (55.0	ים מו	v. slove 5	<i>(</i> 3					_
MOGELLANE	OS OBSERV	AHONSIPKO	DLEMS 7	K VUC	· Collec	TED USU	JG A- 1)	ISPOSABLE	TEFLOS	BAILER
·	2,2451	1112: 111: 1	T.000	#1 A a .						
TUTIAL F	URGE:	HIGHLY	TURBID	GLACK,	no obor		HEBV.	***************************************		
FINAL PU	Mae: 3	LIGHTLY	TURGID,	riem in	10 (90 of 1	NO SHOE	<u>U</u>			
SAMPLE DEST	NATION		•	(•	•				
		- ر								,
Laboratory:		+E	01=-0					21		KI
Delivered Via:	CT+F	Cour	RIER				(`	40+	1/	247
Airbill #:_	NA				Field S	Sampling Co	ordinator: `_	الار		OVV

	Col	<u> </u>				Site Name		1A3	A CONTRACTOR OF THE PARTY OF TH	Manager (
Key No.	A STATE OF THE STA	J/A		ı	Samplir	g Personnel	DEG	RRH	V. 1854 (6-18-24-24-24-24-24-24-24-24-24-24-24-24-24-	mpii :
	round (ppm		<u>.</u>			Date	4/25/02	Time In / Or		
Well Head	ispace (ppm)	ر مــــد	.0			, Weather	San	MU 50'	<u> </u>	
				1				J		
WELL INFOR	MATION									,
				TIC	BGL	⊣ Pu	mp Start Time	10:3	\circ	
	oint Marked or			<u> </u>		Pu	mp Stop Time	1159	5	
Height of Ref.	. Pt. Relative	to Grade	***************************************				Sample Time	1110)	
Well Diamete	r ·			176			Sample ID	GB		·
Well Depth				9.25			Sampled fo			
Screen Interv	al Depth				5-12	1		I HCL, 4 deg	L ASP 95-1	
Water Table D	Depth			6.17		1		Cs/4 deg. AS		
Intake Depth	of Pump/Tubir	ng	***************************************	7.71		1	~~	(Total) / 4 de		
							W .		g. AGF 95-3 4 deg. ASP 9	25.0
Redevelop?	Y (N)								-	
,	\sim								03, 4 deg. AS	
VELL WATER	INFORMATI	ON						•	4 deg. ASP	methods
ength of Wate		,	~~		7		(★) Other	(Specify)		
Volume of Wat			80		-		Ful :	APPOLINIX	(IX +	7
		100	,,		4			W. Chillip	1	ے
Minutes of Pun	nping	8	7		1				4	
VACUATION	INFORMATIO	N.	•		4					7
olume of water			1	3,99	f ·				ı	
id well go dry?		ii weii			व।			er () Pump		
id weirgo dry?		^	5 (-) (0			Pump Type:	150 1SU	o Perista	The pur	np -
	vvater	Quality Meter	ype(s)/Sen	al Numbers:	U-22 Ho	riba Fla	wHistiph	Cell w/	ZIOOP A	tach -
	Pump	Total	Water	Depth	Tuchdity	Micket		/	•	report the number part would not
Tìme	Rate	Gallons	Level	to	Temp.	pН	Cond.	Tumbiality	200	
	(L/min.)	Removed	(TIC)	Water	(Celcius)	pi.	(mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:35	175 ml	mpiel	7.71		9.66	7.10	1,49	16		-137
1040	,176	1.231	7.71		9.87	7.52	1.30	†	7.96	
			7.7		9.81			 9	50.11	- 113
1045	1 1 1 1 1	1676		-		7,55	1.23	6	11.10	-142
1045	175	1.462			1000	7 ()				
1050	.175	1693			9.85	7,57	1.15	5_	11216	-14(
1050	.175 .175	•693 1924			9.87	7.57	1,02	4	11.13	- 140
1050 1055 1000	.175 .175 .175	.693 .924 1.155			9.87	7.57 7.57	1.02	4	11.13 11.11	- 140°
1050 1055	.175 .175	•693 1924			9.87	7.57	1,02	4	11.13 11.11 11.11	- 1400
1050 1055 1000	.175 .175 .175	.693 .924 1.155			9.87	7.57 7.57	1.02	4	11.13	- 140°
1050 1055 1000	.175 .175 .175	.693 .924 1.155			9.87	7.57 7.57	1.02	4	11.13	- 140°
1050 1055 1000	.175 .175 .175	.693 .924 1.155			9.87	7.57 7.57	1.02	4	11.13	- 140°
1050 1055 1000	.175 .175 .175	.693 .924 1.155			9.87	7.57 7.57	1.02	4	11.13	- 140°
1050 1055 1000	.175 .175 .175	.693 .924 1.155			9.87	7.57 7.57	1.02	4	11.13	- 140 - 13
1050 1055 1060 1105	.175 .175 .175	1.155 1.39	7.71	- Voc's	9.88	7.57 7.57 7.57	0.969	4 2	11.11	- 140 - 137 - 135
1050 1055 1060 1105	.175 .175 .175	1.155 1.39	7.71	= Voc's	9.88	7.57 7.57 7.57	0.969	4 2	11.11	- 1409 - 137 - 135
1050 1055 1060 1105	.175 .175 .175 .175	1.155 1.39 1.39	7.71 7.71 7.71		9.87 9.88 9.90	7.57 7.57 7.57	1.02 0.969 0.858 A DSB	4 2	11.11	- 1400 - 137 - 135
1050 1055 1000 1105	.175 .175 .175 .175	1.155 1.39 1.39	7.71 7.71 7.71		9.87 9.88 9.90	7.57 7.57 7.57	1.02 0.969 0.858 A DSB	4 2	11.11	- 1400 - 137 - 135
1050 1055 1000 1105	.175 .175 .175 .175	1.155 1.39 1.39	7.71 7.71 7.71		9.87 9.88 9.90	7.57 7.57 7.57	1.02 0.969 0.858 A DSB	4 2	11.11	- 140 - 137 - 135
1050 1055 1065 1105 1105	.175 .175 .175 .175 .175	1.155 1.39 1.39	7.71 7.71 7.71		9.87 9.88 9.90	7.57 7.57 7.57	1.02 0.969 0.858 A DSB	4 2	11.11	- 140 - 137 - 135
NOSO NOSS NOSS NOSS NOSS NOSS NOSS NOSS	US OBSERV.	1.155 1.39 1.39 ATIONS/PRO	7.71 7.71 7.71		9.87 9.88 9.90	7.57 7.57 7.57	1.02 0.969 0.858 A DSB	4 2	11.11	- 1400 - 137 - 135
NOSO NOSO NOSO NOSO NOSO NOSO NOSO NOSO	US OBSERV.	1.155 1.39 ATIONS/PRO	7.71 7.71 7.71		9.87 9.88 9.90	7.57 7.57 7.57	1.02 0.969 0.858 A DSB	4 2	11.11	- 140° - 137 - 135
NOSO NOSO NOSO NOSO NOSO NOSO NOSO NOSO	US OBSERV.	1.155 1.39 ATIONS/PRO	7.71 7.71 7.71		9.87 9.88 9.90	7.57 7.57 7.57	1.02 0.969 0.858 A DSB	4 2	11.11	- 140° - 137 - 135
NOSO 1055 1060 1105 1105 MITIAL PURCHANEL PUR	US OBSERVA	1.155 1.39 ATIONS/PRO	7.71 7.71 7.71		9.87 9.88 9.90 COLLECTED	7.57 7.57 7.57	1,02 0.969 0.858 A DSPOS	AFLE TE	11.11	- 140° - 137 - 135

(L/min.) Removed (TIC) Water (Celcius) (mS/cm) (NTU) (mg/l) (mg/l) (ms/y) Zoom	Well No.						Oito Haiin	<u>GMA-</u>			
Well Headspace (ppm) O Weather Mostly covely 50 55 7	•					Samplir	ng Personne	GAR/K	(JD		
### WELL INFORMATION Reference Point Marked on Casing							Date	4/25/00	_Time In / Ou	It 10:05	14:50
TIC BGL Pump Start Time 10:40 Pump Start Time Pump Typic Pump Typic Pump Typic Pump Start Time Pump Pump Start Time Pump Pump Start Time Pump Pump Start Time Pump Pump Start Time Pump Start Time Pump Start Time Pump Pump Start Time Pump S	Well Head	ispace (ppm)	0				Weathe	Mostly c	Joudy, 50	0-5505	——————————————————————————————————————
Reference Point Marked on Casing	WELL INFOR	MATION									
Height of Ref. Pt. Relative to Grade -3" Sample Time 11-120 Sample 17-20 Samp						BGL	Pt	ump Start Time	10:40		
Well Depth 1.2			······································				_ Pt	ump Stop Time	14. 4B		
Well Depth 11.87 Sampled for Screen Interval Depth 1.82 National Popth N		***************************************	to Grade	·····			_	Sample Time	11:20	******	
Screen Interval Depth 1,92 1/82		<u> </u>					_	Sample ID	78B-R		
Water Table Depth 2,14'							_	Sampled for	r.		
Intake Depth of PumpTubing 7.0'	· · · · · · · · · · · · · · · · · · ·			***************************************		<u>'</u>		() VOCs	s / HCL, 4 deg	. ASP 95-1	
PCBs (Dissolved) 4 deg. ASP 96-3							_	() SVO	Cs / 4 deg. AS	SP 95-2	
Metals (Total) HNO3, 4 deg. ASP methods (X) Other (Specify)	Intake Depth	of Pump/Tubir	ng		10		J	() PCBs	(Total) / 4 de	g. ASP 95-3	
WELL WATER INFORMATION Length of Water Column () Metals (Dissolved) / deg. ASP methods (X) Other (Specify) Standard 82608/Appendix IX +3 - V. Wolume of Water in Well / Second 240 Will Appendix IX +3 - List **Full Appendix IX - List **Full Appendix IX +3 - List **Full Appendix IX - List **Full Appendix								() PCBs	(Dissolved) /	4 deg. ASP	95-3
WELL WATER INFORMATION Length of Water Column 7.68' Volume of Water in Well Vise allows Full Appendix IX +3 - V. Full Appendix IX - V. Full Appendix IX +3 - V. Full Appendix IX +3 - V. Full Appendix IX - V. Full Appen	Redevelop?	Y N						() Metals	s (Total) / HN0	03, 4 deg. A	SP methods
Length of Water Column Volume of Water in Well Volume of Water in Wel								() Metals	s (Dissolved)	4 deg. ASP	methods
Volume of Water in Well 1.58 and 2.70			Ţ.			-		(x) Other	(Specify)		
Water Quality Meter Type(s) / Serial Numbers: Time Pump Total Gallons Level to Temp. Pump Pu			9.68			1	Stana	lard 8765	OR/Ann	- 1.'v 1X -	17-1000
Second S			1.58901	lon		1					2 000
Volume of water removed from well 13 Gallons Evacuation Method: Bailer () Pump (x)	Minutes of Pur	mping	1240'			ر ہا	tull	mp pendix	1223-6	-15+	
Volume of water removed from well 13 Gallons Evacuation Method: Bailer () Pump Pump	EVACILATION	INCODMATIO	n.			*(N	15/MSC	collec	ted he	re)*	
Time Rate Gallons Level to Temp. pH Cond. Turbidity DO (mg/l) (ms/cm) (NTU) (mg/l) (ms/cm) (ms/cm) (ntu) (mg/l) (ms/cm) (ms/cm					15						
Time Rate Gallons Level to Temp. pH Cond. Turbidity DO (mg/l) (ms/cm) (NTU) (mg/l) (ms/cm) (ms/cm) (ntu) (mg/l) (ms/cm) (ms/cm		er removed from	n well		12 gallos	n ś	Evacuation	Method: Baile	er () Pump	(4)	
Time Rate Gallons Level to Temp. pH Cond. Turbidity DO (mg/l) (ms/cm) (NTU) (mg/l) (ms/cm) (rt) (ms/cm) (ms/cm	Did well go dry?	7 Y (N)		,							
Time Rate Gallons Level to Temp. pH Cond. Turbidity DO (mg/l) (ms/cm). 10:43 200ml 2.27 10.7 7.25 1.20 70 7.05 1/5 10:45 180ml 2.27 10.0 7.43 1.17 50 2.01 -1/5 10:50 180ml 2.19 9.1 7.54 1.13 60 0.00 -1/9 10:05 180ml 2.18 9.0 7.56 1.12 40 0.00 -20 11:00 180ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:01 180ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:02 180ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:03 180ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 2.27 2.28	J			(9961	llons at sa	mplc)	Pump Type	QED SON	mple Pro B	Plackda Pu	mp
Time Rate (L/min,) Removed (TIC) Water (Celcius) PH (Cond. (ms/cm) (NTU) (mg/l) (ms/cm) 10:43 200ml 2.27 10.7 7.25 1.20 70 7.05 1.15 10:45 160ml 2.27 10.0 7.43 1.17 50 2.01 -1.75 10:50 180ml 2.19 9.1 7.54 1.13 60 0.00 -191 11:00 180ml 2.18 9.0 7.56 1.12 40 0.00 -191 11:00 180ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 0.00 0.00 0.00	J,	Water	Quality Meter	Type(s) / Ser	Nons at 35. rial Numbers:	mple) Horiba	Pump Type -ルミこ	: QED SON	mple Pro d	Bladdor Pu	mp
(L/min.) Removed (TIC) Water (Celcius) (mS/cm) (NTU) (mg/l) (mg/l	J ,					mple) Horiba	Pump Type -ルミと	: <u>QED</u> Sav	nple Pro d	Bladda Pu	mp
10:43 200ml 2.27 10.7 7.25 1.20 70 7.05 -15 10:75 160ml 2.27 10.0 7.43 1.17 50 2.01 -173 10:50 180ml 2.20 9.4 7.45 1.14 95 0.38 -190 10:55 180ml 2.19 9.1 7.54 1.13 60 0.00 -191 11:00 180ml 2.18 9.0 7.56 1.12 40 0.00 -20 11:00 180ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:15 160ml 2.20 9.0 7.57 1.12 45 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.27 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 9.0 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 9.0 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 9.0 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 9.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00		Pump	Total	Water	Depth						
10:45 160 ml 2.27 10.0 7.43 1.17 50 2.01 -175 1650 180 ml 2.20 9.4 7.45 1.14 95 0.38 -190 10:55 180 ml 2.19 9.1 7.54 1.13 60 0.00 -191 11:00 180 ml 2.20 9.0 7.56 1.12 40 0.00 -20 11:10 180 ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:10 180 ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160 ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160 ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160 ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160 ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160 ml		Pump Rate	Total Gallons	Water Level	Depth to "	· Temp.		Cond.	Turbidity	DO	ORP (mV)
10:50 180ml 2.20 9.4 7.45 1.14 95 0.38 -190 10:55 180ml 2.19 9.1 7.54 1.13 60 0.00 -191 11:00 180ml 2.18 9.0 7.56 1.12 40 0.00 -20 11:05 180ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.25 8.9 7.58 1.11 55 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.20 7.55 1.12 7.00 7.55 1.12 7.00 7.55 1.12 7.00 7.55 1.12 7.00 7.55	Time	Pump Rate (L/min.)	Total Gallons	Water Level (TIC)	Depth to "	Temp.	рН	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:55 180ml 2.19 9.0 7.54 1.13 60 0.00 -191 11:00 180ml 2.18 9.0 7.56 1.12 40 0.00 -20 11:05 180ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:10 180ml 2.20 9.0 7.55 1.12 35 0.00 -20 11:15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11:15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Pump: Char, NAPL origin, no chem Final Pump: Cicar, NAPL ori	Time	Pump Rate (L/min.)	Total Gallons	Water Level (TIC) こ、こう	Depth to "	・Temp. (Celcius) 10. 子	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l) 7.05	ORP (mV)
11:00 180 ml 2.18 9.0 7.56 1.12 40 0.00 -20 17:05 180 ml 2.20 9.0 7.55 1.12 35 0.00 -20 17:10 180 ml 2.20 9.0 7.55 1.12 45 0.00 -20 11:15 160 ml 2.20 9.0 7.55 1.12 50 0.00 -20 180 ml 2.24 8.9 7.58 1.11 55 0.00 -20 180 ml 2.24 8.9 7.58 1.11 55 0.00 -20 180 ml 160 ml 2.24 8.9 7.58 1.11 55 0.00 -20 180 ml 160 ml 2.24 8.9 7.58 1.11 55 0.00 -20 180 ml 160 ml 160 ml 17.00 1.10 1.10 1.10 180 ml 190	Time 10:43 10:45	Pump Rate (L/min.) ZOOM!	Total Gallons	Water Level (TIC) 2. 27 2. 27	Depth to "	Temp. (Celcius) 10.7	pH 7-25 7-43	Cond. (mS/cm) /-20	Turbidity (NTU)	DO (mg/l) 7.05 2.01	ORP (mV) -155
180ml 2.20 9.0 7.55 1.12 35 0.00 -20 11.10 180ml 2.20 9.0 7.54 1.12 45 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11.15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11.15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11.15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11.15 160ml 2.24 8.9 7.58 1.11 55 0.00 -20 11.15 160ml 2.20 9.0 7.58 1.11 55 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 11.15 160ml 2.20 7.55 1.12 7.55 1.12 7.50 0.00 -20 11.15 160ml 2.20 7.55 1.12 7.55 7.55 7.55 7.55 7.55 7.55 7.55 7.55 7.55 7.55 7.55 7.55 7.55	Time 10:43 10:45 10:50	Pump Rate (L/min.) ZOOM IGOM 180M	Total Gallons	Water Level (TIC) 2.27 2.27 2.27	Depth to "	· Temp. (Celcius) /0- 7 /0- 0 9.4	pH 7-25 7-43 7-45	Cond. (mS/cm) /-20 /-17 /-14	Turbidity (NTU) 70 50 95	DO (mg/l) 7.05 2.01 0.38	ORP (mV) -155 -175
MISCELLANEOUS OBSERVATIONS/PROBLEMS In the Pump: Char NAPL solor, no sheen Final Pump: Clar, NAPL solor, no sheen Final Pump: Clar, NAPL solor, no sheen Keen Turkindity Meter Readings! 11:05: Centure it: 20:5 ntu Weston FFR collected a split sample for Full Appendix IX Analysis ## SAMPLE DESTINATION Laboratory: CTYF Delivered Via: Carrier	Time 10:43 10:45 10:50 10:55	Pump Rate (L/min.) ZOOM! 160M! 180M(180M(Total Gallons	Water Level (TIC) 2. 27 2. 27 2. 27 2. 20 2. 19	Depth to "	Temp. (Celcius) 10-7 10-0 9.4 9.1	pH 7-25 7-43 7-45 7-54	Cond. (mS/cm) /-20 /-17 /-14 /-13	Turbidity (NTU) 70 50 95	DO (mg/l) 7.05 2.01 0.38 0.00	ORP (mV) -155 -175 -190 -199
inal 160ml 2.20 9.0 7.55 1.12 50 0.00 -20 MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Primp: Char NAPL octor, no sheen Final Pump: Cicur, NAPL octor, no sheen Final Pump: Cicur, NAPL octor, no sheen Weston/ EPF collected a splite sample for Full Appendix IX Analysis ## MAPLE DESTINATION Laboratory: CTYF Delivered Via: Coarier	Time 10:43 10:45 10:50 10:55 11:00	Pump Rate (L/min.) ZOOM/ IBOM/ IBOM/ IBOM/ IBOM/	Total Gallons	Water Level (TIC) 2. 27 2. 27 2. 27 2.19	Depth to "	Temp. (Celcius) 10-7 10-0 9.4 9.1	pH 7-25 7-43 7-45 7-54 7-56	Cond. (mS/cm) /-20 /.17 /.14 /.13	Turbidity (NTU) 70 50 95 60 70	DO (mg/l) 7.05 2.01 0.38 0.00	ORP (mV) -155 -175 -190 -199 -201
MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Primp: Char NAPL order, no sheen Final Pump: Cicar, NAPL order, no sheen Final Pump: Cicar, NAPL order, no sheen Sech Turbindily. Meter Prading 11:05: Gentu 11:20: Sentu **Weston/ EPF collected a solide semple for Full Appendix IX Analysis ** AMPLE DESTINATION Laboratory: CTVF Delivered Via: Coarier	Time 10:43 10:45 10:50 10:55 11:00 11:05	Pump Rate (L/min.) ZOOM/ 160M/ 180M/ 180M/ 180M/ 180M/ 180M/ 180M/	Total Gallons	Water Level (TIC) 2. 2 → 2. 2 → 2. 2 → 2. 1 9 2. 1 8 2. 2 □	Depth to "	Temp. (Celcius) 10. 7 10. 0 9. 4 9. 1 9. 0	pH 7-25 7-43 7-45 7-54 7-56 7-55	Cond. (mS/cm) /-20 /-17 /-14 /-12 /-12	Turbidity (NTU) 70 50 95 60 70 35	DO (mg/l) 7.05 2.01 0.38 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201
MISCELLANEOUS OBSERVATIONS/PROBLEMS In, tiel Primp: Clar NAPL order, no sheen Final Pump: Cicux, NAPL order, no sheen End Turkidity Meter Pendings! 11:05: Gentu 11:20: 5 ntu * Weston EPF collected a splite sample for Full Appendix IX Analysis * * AMPLE DESTINATION Laboratory: CTVF Delivered Via: Courses	Time 10:43 10:45 10:50 10:55 11:00 11:05	Pump Rate (L/min.) 200ml 180ml 180ml 180ml 180ml 180ml 180ml	Total Gallons	Water Level (TIC) 2. 27 2. 27 2. 20 2.19 2.18 2. 20 2.20	Depth to "	Temp. (Celcius) 10.7 10.0 9.4 9.1 9.0 9.0 9.0	pH 7-25 7-43 7-45 7-54 7-56 7-55 7-57	Cond. (mS/cm) /-20 /-17 /-14 /-13 /-12 /-12 /-12	Turbidity (NTU) 70 50 95 60 70 35 45	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -202
MISCELLANEOUS OBSERVATIONS/PROBLEMS In, tiel Primp: Clar NAPL order, no sheen Final Pump: Cicux, NAPL order, no sheen End Turkidity Meter Pendings! 11:05: Gentu 11:20: 5 ntu * Weston EPF collected a splite sample for Full Appendix IX Analysis * * AMPLE DESTINATION Laboratory: CTVF Delivered Via: Courses	Time 10:43 10:45 10:50 10:55 11:00 11:05	Pump Rate (L/min.) 200ml 180ml 180ml 180ml 180ml 180ml 180ml	Total Gallons	Water Level (TIC) 2. 27 2. 27 2. 20 2.19 2.18 2. 20 2.20	Depth to "	Temp. (Celcius) 10.7 10.0 9.4 9.1 9.0 9.0 9.0	pH 7-25 7-43 7-45 7-54 7-56 7-55 7-57	Cond. (mS/cm) /-20 /-17 /-14 /-13 /-12 /-12 /-12	Turbidity (NTU) 70 50 95 60 70 35 45	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202
MISCELLANEOUS OBSERVATIONS/PROBLEMS In, tiel Primp: Clar NAPL order, no sheen Final Pump: Cicux, NAPL order, no sheen End Turkidity Meter Pendings! 11:05: Gentu 11:20: 5 ntu * Weston EPF collected a splite sample for Full Appendix IX Analysis * * AMPLE DESTINATION Laboratory: CTVF Delivered Via: Courses	Time 10:43 10:45 10:50 10:55 11:00 11:05	Pump Rate (L/min.) 200ml 180ml 180ml 180ml 180ml 180ml 180ml	Total Gallons	Water Level (TIC) 2. 27 2. 27 2. 20 2.19 2.18 2. 20 2.20	Depth to "	Temp. (Celcius) 10.7 10.0 9.4 9.1 9.0 9.0 9.0	pH 7-25 7-43 7-45 7-54 7-56 7-55 7-57	Cond. (mS/cm) /-20 /-17 /-14 /-13 /-12 /-12 /-12	Turbidity (NTU) 70 50 95 60 70 35 45	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -202
MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Pump: Char, NAPL order, no sheen Final Pump: Cicur, NAPL order, no sheen lach Turbidity Meter Readings! 11:05: Gentu 11:20: Sentu **Weston/ EPF collected a splite sample for Full Appendix IX Analysis ** **MAPLE DESTINATION Laboratory: CTVF Delivered Via: Courier	Time 10:43 10:45 10:50 10:55 11:00 11:05	Pump Rate (L/min.) 200ml 180ml 180ml 180ml 180ml 180ml 180ml	Total Gallons	Water Level (TIC) 2. 27 2. 27 2. 20 2.19 2.18 2. 20 2.20	Depth to "	Temp. (Celcius) 10.7 10.0 9.4 9.1 9.0 9.0 9.0	pH 7-25 7-43 7-45 7-54 7-56 7-55 7-57	Cond. (mS/cm) /-20 /-17 /-14 /-13 /-12 /-12 /-12	Turbidity (NTU) 70 50 95 60 70 35 45	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -202
Final Pump: Cicux, NAPL oxfor, no sheen Lach Turkidity Meter Prading! 11:05: Gentu 11:20: Sentu **Weston/ EPF collected a splite sample for Full Appendix IX Analysis ** BAMPLE DESTINATION Laboratory: CTVF Delivered Via: Courier	Time 10:43 10:45 10:50 10:55 11:00 11:10 11:15	Pump Rate (L/min.) ZOOM! 180M! 180M! 180M! 180M! 180M!	Total Gallons Removed	Water Level (TIC) 2. 27 2. 27 2. 20 2.19 2.18 2. 20 2. 20 2. 20	Depth to "	Temp. (Celcius) 10. 7 10. 0 9.4 9.1 9.0 9.0 9.0 9.0	pH 7-25 7-43 7-45 7-54 7-56 7-55 7-57 7-55	Cond. (mS/cm) /-20 /.17 /.14 /.13 /.12 /.12 /.12 /.12	Turbidity (NTU) 70 50 95 60 70 35 45 50	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -203
Final Pump: Cicur, WAPL odor, no sheen led Turkidity Meter Pending 11:05: Gntu 11:20: Sntu Weston/ EPF collected a splite semple for Full Appendix IX Analysis ** GAMPLE DESTINATION Laboratory: CTVF Delivered Via: Course	Time 10:43 10:45 10:50 10:55 11:00 11:10 11:15	Pump Rate (L/min.) ZOOM! 180M! 180M! 180M! 180M! 180M!	Total Gallons Removed	Water Level (TIC) 2. 27 2. 27 2. 20 2.19 2.18 2. 20 2. 20 2. 20	Depth to "	Temp. (Celcius) 10. 7 10. 0 9.4 9.1 9.0 9.0 9.0 9.0	pH 7-25 7-43 7-45 7-54 7-56 7-55 7-57 7-55	Cond. (mS/cm) /-20 /.17 /.14 /.13 /.12 /.12 /.12 /.12	Turbidity (NTU) 70 50 95 60 70 35 45 50	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -202
** Weston FPF collected a split sample for Full Appendix IX Analysis ** ** Weston FPF collected a split sample for Full Appendix IX Analysis ** ** AMPLE DESTINATION Laboratory: CTVF Delivered Via: Course	Time 10:43 10:45 10:50 10:55 11:00 11:05 11:15	Pump Rate (L/min.) 200m/ 180m/ 180m/ 180m/ 180m/ 180m/ 180m/ 160m/	Total Gallons Removed	Water Level (TIC) 2. 27 2. 27 2. 20 2.18 2. 20 2. 20 2. 20	Depth to Water	Temp. (Celcius) 10. 7 10. 0 9. 4 9.1 9.0 9.0 9.0	pH 7.25 7.43 7.45 7.54 7.56 7.55 7.57 7.55	Cond. (mS/cm) /-20 /-17 /-14 /-12 /-12 /-12 /-12 /-12	Turbidity (NTU) 70 50 95 60 70 35 45 50	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -203
* Weston / EPF collected a split sample for Full Appendix IX Analysis * # AMPLE DESTINATION Laboratory: CTVF Delivered Via: Course	Time 10:43 10:45 10:50 10:55 11:00 11:05 11:15	Pump Rate (L/min.) 200m/ 180m/ 180m/ 180m/ 180m/ 180m/ 180m/ 160m/	Total Gallons Removed	Water Level (TIC) 2. 27 2. 27 2. 20 2.18 2. 20 2. 20 2. 20	Depth to Water	Temp. (Celcius) 10. 7 10. 0 9. 4 9. 0 9. 0 9. 0 9. 0 9. 0 9. 0	pH 7-25 7-43 7-45 7-54 7-56 7-55 7-55 7-55 7-58	Cond. (mS/cm) 1-20 1-17 1-14 1-13 1-12 1-12 1-12 1-12	Turbidity (NTU) 70 50 95 60 40 35 45 50	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -203
AMPLE DESTINATION AMPLE DESTINATION Laboratory: CTVF Delivered Via: Courses	Time 10:43 10:45 10:50 10:55 11:00 11:15 Final MISCELLANEO Lach Turking	Pump Rate (L/min.) ZOOM! 180m! 180m! 180m! 180m! 180m! 180m! 160m! 160m!	Total Gallons Removed ATIONS/PRO	Water Level (TIC) 2. 27 2. 27 2. 27 2. 19 2. 18 2. 20 2. 20 2. 20 2. 20 2. 20	Depth to Water Tn, //o/	Temp. (Celcius) 10-7 10-0 9.4 9.1 9.0 9.0 9.0 9.0	pH 7-25 7-43 7-45 7-54 7-56 7-55 7-55 7-55 7-58	Cond. (mS/cm) 1-20 1-17 1-14 1-13 1-12 1-12 1-12 1-11	Turbidity (NTU) 70 50 95 60 40 35 45 50	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -203
Laboratory: C7vF Delivered Via: Courser	Time 10:43 10:45 10:50 10:55 11:00 11:05 11:15 Final	Pump Rate (L/min.) ZOOM! 180m! 180m! 180m! 180m! 180m! 180m! 160m! 160m!	Total Gallons Removed ATIONS/PRO	Water Level (TIC) 2. 27 2. 27 2. 27 2. 19 2. 18 2. 20 2. 20 2. 20 2. 20 2. 20	Depth to Water Tn, //o/	Temp. (Celcius) 10-7 10-0 9.4 9.1 9.0 9.0 9.0 9.0	pH 7-25 7-43 7-45 7-54 7-56 7-55 7-55 7-55 7-58	Cond. (mS/cm) 1-20 1-17 1-14 1-13 1-12 1-12 1-12 1-11	Turbidity (NTU) 70 50 95 60 40 35 45 50	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -203
Delivered Via: Course	Time 10:43 10:45 10:50 10:55 11:05 11:16 III:15 IIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Pump Rate (L/min.) ZOOM! 180m! 180m! 180m! 180m! 180m! 180m! 160m! 160m! US OBSERV	Total Gallons Removed ATIONS/PRO	Water Level (TIC) 2. 27 2. 27 2. 20 2. 19 2. 20 2. 20 2. 20 2. 20 2. 20 2. 20 2. 20	Depth to Water In, fiel Final Pun Si Gentu	Temp. (Celcius) 10.7 10.0 9.4 9.0 9.0 9.0 9.0 9.0 9.0 10.0 9.0 10.0 10	7.25 7.43 7.45 7.54 7.56 7.55 7.55 7.55 7.55	Cond. (mS/cm) 1-20 1-17 1-14 1-13 1-12 1-12 1-12 1-12 1-11 1-11	Turbidity (NTU) 70 50 95 60 40 35 45 50	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -203
	Time 10:43 10:45 10:50 10:55 11:00 11:05 11:15 Final MISCELLANEC Weston AMPLE DEST	Pump Rate (L/min.) ZOOM 180ml 160ml 160ml	Total Gallons Removed ATIONS/PRO	Water Level (TIC) 2. 27 2. 27 2. 20 2. 19 2. 20 2. 20 2. 20 2. 20 2. 20 2. 20 2. 20	Depth to Water In, fiel Final Pun Si Gentu	Temp. (Celcius) 10.7 10.0 9.4 9.0 9.0 9.0 9.0 9.0 9.0 10.0 9.0 10.0 10	7.25 7.43 7.45 7.54 7.56 7.55 7.55 7.55 7.55	Cond. (mS/cm) 1-20 1-17 1-14 1-13 1-12 1-12 1-12 1-12 1-11 1-11	Turbidity (NTU) 70 50 95 60 40 35 45 50	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -203
AirOill #: NA Field Sampling Coordinator:	Time 10:43 10:45 10:50 10:55 11:00 11:10 IISCELLANEO LAW Meston AMPLE DEST Laboratory:	Pump Rate (L/min.) ZOOM! 180M! 160M! COM! CTVE	Total Gallons Removed ATIONS/PRO	Water Level (TIC) 2. 27 2. 27 2. 20 2. 19 2. 20 2. 20 2. 20 2. 20 2. 20 2. 20 2. 20	Depth to Water In, fiel Final Pun Si Gentu	Temp. (Celcius) 10.7 10.0 9.4 9.0 9.0 9.0 9.0 9.0 9.0 10.0 9.0 10.0 10	7.25 7.43 7.45 7.54 7.56 7.55 7.55 7.55 7.55	Cond. (mS/cm) 1-20 1-17 1-14 1-13 1-12 1-12 1-12 1-12 1-11 1-11	Turbidity (NTU) 70 50 95 60 40 35 45 50	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -203
	Time 10: 43 10: 45 10: 50 10: 55 11: 00 11: 05 11: 15 Final MISCELLANEO AMPLE DEST Laboratory: Delivered Via:	Pump Rate (L/min.) ZOOM! 180m! 160m! Com! CTVF Course	Total Gallons Removed ATIONS/PRO	Water Level (TIC) 2. 27 2. 27 2. 20 2. 19 2. 20 2. 20 2. 20 2. 20 2. 20 2. 20 2. 20	Depth to Water In, fiel Final Pun Si Gentu	Temp. (Celcius) 10.7 10.0 9.4 9.1 9.0 9.0 9.0 9.0 9.0 1.c 9.0 1.c	7.25 7.43 7.45 7.54 7.56 7.55 7.55 7.55 7.55 7.55 7.55	Cond. (mS/cm) 1-20 1-17 1-14 1-13 1-12 1-12 1-12 1-12 1-12 1-12 1-12	Turbidity (NTU) 70 50 95 60 40 35 45 50 55 nc cle	DO (mg/l) 7.05 2.01 0.38 0.00 0.00 0.00 0.00 0.00	ORP (mV) -155 -175 -190 -199 -201 -202 -203

12591543,xla

		16.		STATE OF THE STATE		Site Nam		13		AND THE RESERVE	
Key No	Appellant and the grown	N/A		.•	Sampli	ng Personne	B HAT		വധ്യാത	Proper To	C CENTRAL
PID Back	ground (ppn	1)0.				Dat		Time In / C)ut 143/		
Well Head	ispace (ppm	n)	0	***************************************		, Weathe			11		
WELL INFOR	MATION		•	T TIO					<i>~ ~</i>	٠,	
Defenses				TIC	BGL	- → P1	ump Start Tim	e <u>14</u> =	55		1
	oint Marked o			 		P1	ump Stop Tim	e_'15	25		
Height of Rei		to Grade		ļ		_	Sample Time	153	<u>س</u>	***************************************	
Well Diamete	<u>r</u>			1 11			Sample II	160	(0)		
Well Depth					~ 96	_	Sampled fo	г.			-
Screen Interv					91 - 90	2	(X) VOC	s / HCL. 4 de	g. ASP 95-1		
Water Table I	Depth	***************************************		13.30	>			Cs/4 deg. A			
Intake Depth	of Pump/Tubi	ng		4	73,5	5			eg. ASP 95-3	,	
									/4 deg. ASP		
Redevelop?	Y(N)										
									103, 4 deg. A		
WELL WATER	INFORMAT	ION					() Metals	(Uissolved)	/4 deg. ASF	methods	
Length of Wat			87		7		(火) Other				
Volume of War		1	<u> </u>		-		NATURAL	- ATTEN	UHTIM!		*
Minutes of Pur		 	50		-			11100	• • • • • • • • • • • • • • • • • • • •		
Wildles Of Ful	nbing		30		J						
EVACUATION	INFORMATI	ON	•)						
Volume of wate			1	1,0 9	ا ا	<u>.</u>				200	-
Did well go dry?		III WEII	•	1,0 4	91	Evacuation	Method: Baile	r 🕪 Pump	(义)	nga P. L. S. B. Salama Colonia Planton make Salama and	
old well go diy i	1	Overlike Mades	T() (0 :	\cup	. 1	Pump Type:	1500 15	O PORO	ABUS PU	MP	
	vvaler	Quality Meter	Type(s) / Seria	al Numbers:	HORIBA	F. P.22			,		
	Pump	Total	Water	Depth	7	1	 	,		e ere last lasten, par e mange	10-10-10-10-10-10-10-10-10-10-10-10-10-1
Time	Rate	Gallons	Level	to	Temp.	pН	C	-		And the second s	
	(L/min.)	Removed	(TIC)	Water	(Celcius)	P	(mS/cm)	Turbidity (NTU)	DO (/1)	ORP	
1435	.a75	.099	8.35		9.39	7.54	0,424		(mg/l)	(mV)	The state of the s
1440	000	.198	8.90	***************************************	9.48	7.62	0.399	<u> </u>	6.33	-191	-
1445	1075	7.97	13.05		9,69	770		58	4.09	- 195	-
1450	1075	.396	13.68		4.32		0.38	42	3.38	-203	
1455	,075	1495	13.45			7.81	0.374	38	5.32	-157	4
1500	,075	594	13,45		892	7.87	0.362		5.43	, - 14 選	
1505	,075		13.45		8.85	7.87	0.361	30	5.44	- 138	49 7 3 4 9 2
1510		1693			8.81	7.87	0,361	28	5,44	-136	****
1515	.075	1097	13.45		6.BO	7.67	0. 361	18	5.44	-121]
1313	:075	.691	13,45		978	7.87	0.362	לו	5.43	-135	1 -
											1
											1
nai								***************************************			1
loom:							<u>-</u>				1
ISCELLANEO	US OBSERV	ATIONS/PRO	BLEMS	K Vocis	anec	IEN WA	A DISP	CARIC	TAH	CN BAHL	7
									- 10'-	UN ISMA	ر. در م
WITHAL PUR	<u>GE 3 M</u>	WARANDLY	TURRI	D. Cley	hi Kir	CDOZ. N	n Silm	\			•
JUAL PUR	268 ! Si	164774	TURISID	CLEAR	. NO 0		in Cilm	2)			
				1	1000	1	a street	ν.			
AMPLE DESTI	_		•								
Laboratory: _										1	
Delivered Via:	ITE (Y	URRIER						mn	. 1	1/1	
Airbill #:	NA				Field 0	ampling Cod	rdinat	7/5/	. 17 -	KhAL.	
-	1				i iaid 2	amping Co	orumator; —	V-1	15	1 ANA 1	
				•	:						

PID Backgr Well Heads WELL INFORM Reference Poir Height of Ref. I Well Diameter Well Depth Screen Interval Water Table De Intake Depth of	nt Marked on Pt. Relative I Depth epth	0.0 0.0 Casing		TIC	Sampin	ng Personnel Date , Weather	42502	_Time in / Ou	GETTINO 11 1420	***
Well Heads WELL INFORM Reference Poir Height of Ref. I Well Diameter Well Depth Screen Interval Water Table De Intake Depth of	MATION Int Marked on Pt. Relative I Depth epth	C.Ŏ		TIC	BGL				1420	
Reference Poir Height of Ref. I Well Diameter Well Depth Screen Interval Water Table De Intake Depth of	nt Marked on Pt. Relative I Depth epth	Casing		TIC	BGL					
Reference Poir Height of Ref. I Well Diameter Well Depth Screen Interval Water Table De Intake Depth of	nt Marked on Pt. Relative I Depth epth			TIC	BGL					
Height of Ref. I Well Diameter Well Depth Screen Interval Water Table De Intake Depth of	Pt. Relative . I Depth			TIC	BGL					
Height of Ref. I Well Diameter Well Depth Screen Interval Water Table De Intake Depth of	Pt. Relative . I Depth			Y		Pu	mp Start Time	: 14:30	0	
Well Diameter Well Depth Screen Interval Water Table De Intake Depth of	I Depth epth	to Grade			<u> </u>		mp Stop Time			
Well Depth Screen Interval Water Table De Intake Depth of	I Depth epth				نسيد		Sample Time			
Screen Interval Water Table De Intake Depth of	epth			1"	نــــــــــــــــــــــــــــــــــــــ		Sample ID			
Water Table De Intake Depth of	epth				1~150		Sampled for			
Intake Depth of					144-150		(X) Vocs	/ HCL, 4 deg	. ASP 95-1	
	f Pump/Tubin	•		7.07	_			Ss/4 deg. AS		
ledevelop?		q		147				(Total) / 4 dec		
Redevelop?									4 deg. ASP 9	95-3
	Y N								03, 4 deg. AS	
									4 deg. ASP	
VELL WATER I	INFORMATIO	NC					(X) Other		, 409. 7101	.,
Length of Water	Column	14	2.93		7				NUATIN	
Volume of Water	r in Well				7		John Char	C #716	NUATION	,
Minutes of Pump	ping	~	9 mm.		1					
										
VACUATION IN		-			cz'					= 77779
olume of water r		n well		<u>~39</u>	alloss	Evacuation I	Method: Baile	r (X) Pump	(>)	ميسة گوري چه نوب
id well go dry?	Y (N)			•					E PUMP	> 1
	Water C	uality Meter	Type(s) / Seri	al Numbers:	HORIBA	UZZ /Z	100 PH	xh Tur	Fisher N	roter
	D.,	T-4-1	187-1			/			J	· · · · · · · · · · · · · · · · · · ·
Time	Pump Rate	Total Gallons	Water Level	Depth to	Temp.	-11	0 1			: <u> </u>
	(L/min.)	Removed	(TIC)	Water	(Celcius)	pН	Cond. (mS/cm)	Turbidity (NTU)	DO (ma/l)	ORP
3-14:40	375m	WHAL	7.32		10,20	9.03		170/71	(mg/l) 5.69	(mV)
14:45	375 ml	<u> </u>	7.33		10.04	9.72.89	0.124			
	375ml		7. 34		9,97	9.20	0.121	90/43	3.88	53
	375nl		7,35		9.96	9.16		190/24		58
	375 ml		7.36		9.96	9.07			4.17	57
	375 m/		7, 37		9,90	8.97	0.127	120/14		38
	375ml		7.38				0.128	71/8	4.23	
	375ml		7.39		9,87	8.89	0./33	84/8	4. 20	-9
	375 m/		7,40			8.80	0./35		4, 25	-41
	375ml				9,90	8.82	0,/37	48/5	4.18	-4/
	3/37		7:41		1.89	8.78	0./37	87 4	4.20	-4/
nal										-46
SCELLANEOU	IS OBSERVA		•		· Cour	Saed n.	SING A	D14805,	ABLE 7	
OF STREET C	<i>σωυ</i>		701 007	no odo	<u> </u>					BALL
			· · · · · · · · · · · · · · · · · · ·					•		
MPLE DESTIN	IATION									
									_	Λ <i>I</i>
MPLE DESTIN Laboratory: elivered Via:	IATION CTE COVERI	-2V/					/		n 0-	111

12591543.xls

BLASLAND, BOUCK LEE, INC.

6/9/99

	ground (ppm) Ispace (ppm)	3-6			Samplin	Site Name	GMA-3 GAR/K	, FD		
Well Head WELL INFORI Reference Po		0			_ Jampini		4/25/02		1/100/	19130
Reference Po					-	Weather	Overcust	, Rain, 41	2-454	77-5-
Reference Po								,		
Height of Ref.	MATION			TIC	BGL	7 P:::	np Start Time	16:25	,	
Height of Ref.	oint Marked on	Casing		yes.	1 201	1 '	np Start Time	19:15	···········	
				- 3.,		-	Sample Time			
		io Orage		2"		1		GMA3	- (-	
Well Depth			18.04	71.3		1	Sampled for		<u> </u>	
Screen Interv	al Depth			8-18'		1	1	/ HCL, 4 deg.	ASP 95-1	
Water Table [1		s / 4 deg. AS		
	of Pump/Tubir	ng		11.30'				(Total) / 4 deg		•
								(Dissolved) /		95-3
Redevelop?	Y N							(Total) / HNC	_	
								(Dissolved) /		
VELL WATER	RINFORMATI	ON					(X) Other	(Specify)		
Length of Wat	ter Column	6.74'				Stund	ord Prec		ndix IX	-Vocs
Volume of Wa	iter in Well	1-10 90	llon							
Minutes of Pur	mping	170'				Full	Appen	JIX IX	3-415	+
Time JG:30 JG:40	Pump Rate (L/min.) 150m	Quality Meter Total Gallons Removed	Water Level (TIC) 11-3;	ons of seial Numbers: Depth to Water	Temp. (Celcius) 11-6 12.4	pH 7, 26 7.26	Cond. (mS/cm) 0.93	Turbidity (NTU)	DO (mg/l) 4.60 j.32	ORP (mV) -130
16:45	180m		11.32			7.27	0.99	58	0.40	-142
16:50	180ml		11.32		13.2	7.24	0.99	50 35	0.19	-145
16:55	180m		11.32		13.2	7.21	1.01		0.13	-146
17:00	180ml		11.32	 	13.3	7.14	1.10	25 17	0.01	-141
7:05	180m1		11.32		13.3	7-11	1.12	15	0.00	-138
	180:n1		11.32	<u> </u>	13.3	7.09	1.14	13	0.00	-135
					1.0.0	1				133
										1
17:10			11.33		13.3	7.05	1.16	12	0.00	-/32
17410	180ml									<u> </u>
7410	180ml							Doton		
inal	OUS OBSER\		OBLEMS	In Hiu Final	Purge C	: Clear	slight	Petro NAPL a	ne cha	o sheen
inal	OUS OBSER\		OBLEMS	In Him Final 5:9ntu	Purge C	: Clear Clear x1	Slight	NAPL &	ne show	o sheen
inal ISCELLANE York Tu	OUS OBSERV	Rouding	s: 16:4.	Final 5:9ntu	Purge C	1/ecv x1	ight Peti	15. Zn	no show	<u> </u>
inal ISCELLANE Yach Tul Yach West	OUS OBSERV	Rouding	s: 16:4.	Final 5:9ntu	Purge C	1/ecv x1	ight Peti	15. Zn	no show	<u> </u>
inal ISCELLANE Loch Tu West	OUS OBSERV	Roading a collec	s: 16:4.	Final 5:9ntu	Purge C	1/ecv x1	ight Peti	15. Zn	no show	<u> </u>
inal IISCELLANE Laboratory:	OUS OBSERVED IN THE	Rouding 1 collec	s: 16:4.	Final 5:9ntu	Purge C	1/ecv x1	ight Peti	15. Zn	no show	<u> </u>
inal IISCELLANE Laboratory: Delivered Via:	OUS OBSERV	Rouding 1 collec	s: 16:4.	Final 5:9ntu	Purpe 64. 17:00 mple for	18-4, 11 20 - 4 ntu	ight Peti	WAPEL OF ONLOW	tu alysis	* *

12591543.xis

BLASLAND, BOUCK LEE, INC

6/9/99

PID Background (ppm)	Well No. Key No.	<u>43A</u> Fx-3	7			 Sampling	Site Name Personnel	DAC /	RJP		
Well Headspace (ppm)	PID Backg	round (ppm)	-				Date	4-76-07	Time In / Out		
Figure F	Well Head	space (ppm)	-	_			Weather	Snow il	30°/F		
Pump Start Time	EL LINES										
Reference Point Marked on Casing Pump Stop Time Sample Time O4-H() O2-H() O2-H(ELL INFOR	MATION			TIC	BGI	Pon	nn Start Time	Deu5		
Sample Time	Reference Po	oint Marked on	Casing		110	DOL	1		<u></u>		
Nell Diameter Nell Depth Sampled for: Sampled for: Sampled for: Nell Depth Sampled for: Nell Depth Sampled for: Nell Depth Nel					 		1		nacil)	
Sampled for: Sampled for:			o oraco		1"						·
Core Interval Depth 15 15 25 25 25 25 25 25				***	5095						
SVOCs / 4 deg. ASP 95-2		al Depth				95'				ASP 95-1	
PCBs (Total) / 4 deg. ASP 95-3				***************************************					_		
Condition Column Column			ng								
Metals (Total) / HNO3, 4 deg. ASP methods											5-3
Cother (Specify) Notice Alternation 1/5, ft	develop?	Y N								-	
Column of Water in Well Column of Water in Well Column of Water removed from from from from from from from from	,							•	•		
Column of Water in Well Column of Water in Well Column of Water removed from from from from from from from from	ELL WATER	RINFORMATI		<u>.</u>							
Condition Column Column	ength of Wate	er Column	43	5,1 ft				Noton	1 Attenuas	tion list	
ACUATION INFORMATION ACUATION INFORMATION Information Acuation Information Information	olume of Wa	ter in Well]					
Solution of water removed from well 10 10 10 10 10 10 10	linutes of Pur	mping	45]					
Time Rate (L/min.) Gallons Removed (TIC) Level (TIC) to Water (Celcius) pH (mS/cm) Cond. (mS/cm) Turbidity (NTU) DO (mg/l) OR (ms/cm) 0.850 3.90 1.90 $1/1, 24$ 9.3 9.2 1.54 79 3.35 -17 0.855 3.90 1.80 $1/1.68$ 8.7 8.4 1.55 1.04 1.96 -215 9.00 3.00 1.2 $1/1.98$ 8.7 8.5 1.56 101 1.96 -215 9.05 3.00 1.2 $1/1.98$ 8.7 8.5 1.56 101 1.97 -215 9.05 3.00 1.6 12.10 8.7 8.7 8.5 1.56 101 1.97 -215 9.10 3.00 3.00 $1.2.18$ 9.1 8.7 8.3 1.68 3.9 1.43 -182 9.25 3.00 3.2 12.35 9.4		~	m well		4.0 (x: 100)	prior to	Evacuation N	Method: Baile	r () Pump	(1)	
0.850 300 $.40$ 11.24 9.3 9.2 $.54$ 79 3.35 -17 0.855 300 1.80 11.68 8.7 9.4 $.55$ 104 1.96 -215 1.900 300 1.2 11.98 8.7 8.5 $.56$ 101 1.97 -210 105		? Y (N)	,					Terro			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	d well go dry?	Pump Rate	Quality Meter Total Gallons	Type(s) / Seri	Depth to	Horba U	-22 /HA	JSCO W Tubus Cond.	Turbidity	DO	ORP
$ \begin{array}{ccccccccccccccccccccccccccccccccc$	d well go dry?	Pump Rate (L/min.)	Quality Meter Total Gallons Removed	Type(s) / Seri Water Level (TIC)	Depth to	Horbs U Temp. (Celcius)	<i>-22 / АЖ</i>	TSCO W Tudou Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	(mV)
905 300 1.6 12.10 8.7 8.4 163 60 1.64 -194 910 300 2.0 12.18 9.1 8.3 168 39 1.43 -183 915 300 2.4 12.28 9.4 8.2 173 29 1.35 -172 920 300 2.8 12.35 9.4 8.1 1.76 25 1.26 -167 125 125 12.30	d well go dry? Time	Pump Rate (L/min.)	Quality Meter Total Gallons Removed	Water Level (TIC) //, Z	Depth to	Temp. (Celcius)	-22 / HAR pH 8,2	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	(mV)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	d well go dry? Time Oならし	Pump Rate (L/min.)	Quality Meter Total Gallons Removed .40	Water Level (TIC) //, 24	Depth to	Horbs () Temp. (Celcius) 9,3 8,7	pH 9,2 9,4	TSCO W Todace Cond. (mS/cm) ;54 ,55	Turbidity (NTU) 79	DO (mg/l) 3,35	(mV) -/77 - 2/5
9/5 300 2.4 12.28 9.4 8.2 $.73$ 29 1.35 -172 920 300 2.8 12.35 9.4 8.1 $.76$ 25 1.26 -167 169	d well go dry? Time 0 ならひ 2 ならご 2 ならひ	Pump Rate (L/min.) 300	Quality Meter Total Gallons Removed ,40 ,80 //2	Type(s) / Seri Water Level (TIC) //, 2 4 //, 68 //, 98	Depth to	Temp. (Celcius) 9,3 8,7	pH 9, 2 9, 4 8, 5	TSCO W Tubus Cond. (mS/cm) :54 :55 :56	Turbidity (NTU) 79	DO (mg/l) 3,35 1.96 1.97	(mV) -/77 - 2/5 -2/0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Time 0350 0350 0355	Pump Rate (L/min.) 300 300 300	Quality Meter Total Gallons Removed .40 .80 .12	Type(s) / Seri Water Level (TIC) //, 24 //, 68 //, 98 //, 10	Depth to	Temp. (Celcius) 9,3 8,7 8,7 8,7	pH 9,2 9,4 8,5 8,4	TSCO W Tubus Cond. (mS/cm) 154 155 156 163	Turbidity (NTU) 79 104 101 60	DO (mg/l) 3,35 1,96 1,97 1,64	(mV) -177 -215 -210 -194
725 300 3.2 12.30 7.3 8.0 .78 18 1.23 -160 730 300 3.6 12.24 829.2 8.0 .79 16 1.22 -160 7935 300 4.0 12.16 8.9 8.0 .80 12 1.20 -160	Time 0850 0855 0900	Pump Rate (L/min.) 300 300 300 300	Quality Meter Total Gallons Removed .40 .180 .1.2 .1.6 2.0	Type(s) / Seri Water Level (TIC) //, 24 //,68 //, 98 //2.10 //2.18	Depth to	Temp. (Celcius) 9,3 8,7 8,7 8,7	pH 9', 2 9', 4 8', 5 8', 4 8', 3	Cond. (mS/cm) ,54 ,55 ,56 ,63	Turbidity (NTU) 79 104 101 60 39	DO (mg/l) 3,35 1,96 1,97 1,64 1,43	(mV) -/77 - Zi5 -Zi0 -/94 -/82
730 300 3.6 12.24 229.2 8.0 .79 16 1.22 -160 1935 360 4.0 12.16 8.9 8.0 .80 12 1.20 -160	Time 0%50 0%550 0%550 0%55	Pump Rate (L/min.) 300 300 300 300 300	Quality Meter Total Gallons Removed .40 .80 .12 .16 2.0 2.4	Type(s) / Seri Water Level (TIC) //, 2 / ///68 /// 1// 98 /// 12.10 /// 12.18 /// 12.28	Depth to	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1	pH 9,2 9,4 8,5 8,4 8,3 8,2	Cond. (mS/cm) ,54 ,55 ,56 ,63 ,68	Turbidity (NTU) 79 104 101 60 39 29	DO (mg/l) 3,35 1.96 1.97 1.64 1.43 1.35	(mV) -/77 - 2/5 -2/0 -/94 -/82 -/72
7935 300 4.0 12.16 8.9 8.0 ,80 12 1,20 -160	Time 0850 9855 900 905 910 920	Pump Rate (L/min.) 300 300 300 300 300	Total Gallons Removed 140 180 112 116 2.0 2.4 2.8	Type(s) / Seri Water Level (TIC) //, 24 //, 24 //, 24 //, 29 //, 29 //, 20 //, 28 //, 28 //, 28 //, 28	Depth to	Temp. (Celcius) 9,3 \$,7 8,7 8,7 9,1 9,4 9,4	pH 9,2 9,4 8,5 9,4 8,3 8,2 8,1	TSCO W Tudou Cond. (mS/cm) ,54 ,55 ,56 ,63 ,68 ,73 ,76	Turbidity (NTU) 79 104 101 60 39 29 25	DO (mg/l) 3,35 1,96 1,97 1,64 1,43 1,35 1,26	(mV) -/77 - 2/5 - 2/0 - /94 -/82 -/72 -/07
	Time 0850 0855 0900 0905 0910 0915	Pump Rate (L/min.) 300 300 300 300 300 300 300	Quality Meter Total Gallons Removed .40 .80 .12 .16 2.0 2.4 2.8 3.2	Water Level (TIC) //, 24 //, 24 //, 24 //, 24 //, 24 //, 25 //, 28 //, 28 //, 28 //, 28 //, 28 //, 28	Depth to	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1 9,4 9,4 9,3	pH 9,2 8,4 8,5 8,4 8,3 8,2 8,0	Cond. (mS/cm) ;54 ;56 ;63 ;68 ;73 ;76 ;78	Turbidity (NTU) 79 104 101 60 39 25 13	DO (mg/l) 3,35 1,96 1,97 1,64 1,43 1,35 1,26 1,23	(mV) -177 -215 -210 -194 -182 -172 -167 -164
nal	Time 0850 0855 0900 0905 0910 6715 920 925	Pump Rate (L/min.) 300 300 300 300 300 300 300 300 300	Quality Meter Total Gallons Removed .40 .80 .12 .16 2.0 2.4 2.8 3.2 3.6	Type(s) / Seri Water Level (TIC) //, 24 //, 24 //, 24 //, 24 //, 28 //, 28 //, 28 //, 36 //, 36 //, 24	Depth to	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1 9,4 9,4 9,3	pH 9,2 8,4 8,5 8,4 8,3 8,2 8,0 8.0	Cond. (mS/cm) 154 155 156 163 168 173 176 178	Turbidity (NTU) 79 104 101 60 39 29 25 13	DO (mg/l) 3,35 1.96 1.97 1.64 1.43 1.35 1.26 1.23 1.22	(mV) -/77 - 2/5 - 2/0 - /94 -/82 -/72 -/07
	Time 0850 0855 0905 0905 0910 67/5 0920 925	Pump Rate (L/min.) 300 300 300 300 300 300 300 300 300	Quality Meter Total Gallons Removed .40 .80 .12 .16 2.0 2.4 2.8 3.2 3.6	Type(s) / Seri Water Level (TIC) //, 24 //, 24 //, 24 //, 24 //, 28 //, 28 /	Depth to	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1 9,4 9,4 9,3	pH 9,2 8,4 8,5 8,4 8,3 8,2 8,0 8.0	Cond. (mS/cm) 154 155 156 163 168 173 176 178	Turbidity (NTU) 79 104 101 60 39 29 25 13	DO (mg/l) 3,35 1.96 1.97 1.64 1.43 1.35 1.26 1.23 1.22	(mV) -177 -215 -210 -182 -172 -172 -167 -164 -162
iscellaneous observations/problems Water clear one odorless	Time 0350 0355 0900 0905 0910 0915	Pump Rate (L/min.) 300 300 300 300 300 300 300	Quality Meter Total Gallons Removed .40 .80 .12 .16 2.0 2.4 2.8 3.2	Water Level (TIC) //, 24 //, 24 //, 24 //, 24 //, 24 //, 25 //, 28 //, 28 //, 28 //, 28 //, 28 //, 28	Depth to	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1 9,4 9,4 9,3	pH 9,2 8,4 8,5 8,4 8,3 8,2 8,0	Cond. (mS/cm) ;54 ;56 ;63 ;68 ;73 ;76 ;78	Turbidity (NTU) 79 104 101 60 39 25 13	DO (mg/l) 3,35 1,96 1,97 1,64 1,43 1,35 1,26 1,23	(m) -17 -215 -216 -182 -182 -172 -161
	Time 0350 0355 0905 0910 0925 1920 1925 1935	Pump Rate (L/min.) 300 300 300 300 300 300 300 300 300 30	Quality Meter Total Gallons Removed .40 .80 .12 .66 2.0 2.4 2.8 3.2 3.6 4.0	Type(s) / Seri Water Level (TIC) //, 24 //, 24 //, 24 //, 28 //, 10 //, 28 //, 10 //, 28 //, 28 /	Depth to Water	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1 9,4 9,4 9,3	pH Y, 2 7, 4 8, 5 8, 4 8, 3 8, 2 8, 0 8, 0 8, 0	Cond. (mS/cm) ,54 ,55 ,56 ,63 ,68 ,73 ,76 ,78	Turbidity (NTU) 79 104 101 60 39 29 25 13 16 12	DO (mg/l) 3,35 1.96 1.97 1.64 1.43 1.35 1.26 1.23 1.22	(mV) -177 -215 -210 -194 -182 -172 -167 -164 -162
	Time 0850 0855 0905 0905 0910 0925 1920 1925	Pump Rate (L/min.) 300 300 300 300 300 300 300 300 300 30	Quality Meter Total Gallons Removed .40 .80 .12 .66 2.0 2.4 2.8 3.2 3.6 4.0	Type(s) / Seri Water Level (TIC) //, 24 //, 24 //, 24 //, 28 //, 10 //, 28 //, 10 //, 28 //, 28 /	Depth to Water	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1 9,4 9,4 9,3	pH Y, 2 7, 4 8, 5 8, 4 8, 3 8, 2 8, 0 8, 0 8, 0	Cond. (mS/cm) ,54 ,55 ,56 ,63 ,68 ,73 ,76 ,78	Turbidity (NTU) 79 104 101 60 39 29 25 13 16 12	DO (mg/l) 3,35 1.96 1.97 1.64 1.43 1.35 1.26 1.23 1.22	(mV) -177 -215 -210 -194 -182 -172 -167 -164 -162
	Time 0850 0855 0905 0905 0905 0925 0925	Pump Rate (L/min.) 300 300 300 300 300 300 300 300 300 30	Quality Meter Total Gallons Removed .40 .80 .12 .66 2.0 2.4 2.8 3.2 3.6 4.0	Type(s) / Seri Water Level (TIC) //, 24 //, 24 //, 24 //, 28 //, 10 //, 28 //, 10 //, 28 //, 28 /	Depth to Water	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1 9,4 9,4 9,3	pH Y, 2 7, 4 8, 5 8, 4 8, 3 8, 2 8, 0 8, 0 8, 0	Cond. (mS/cm) ,54 ,55 ,56 ,63 ,68 ,73 ,76 ,78	Turbidity (NTU) 79 104 101 60 39 29 25 13 16 12	DO (mg/l) 3,35 1.96 1.97 1.64 1.43 1.35 1.26 1.23 1.22	(mV) -177 -215 -210 -194 -182 -172 -167 -164 -162
	Time 0850 0855 0905 0905 0905 0925 0925 0925 0935	Pump Rate (L/min.) 300 300 300 300 300 300 300 300 300	Quality Meter Total Gallons Removed .40 .80 .12 .66 2.0 2.4 2.8 3.2 3.6 4.0	Type(s) / Seri Water Level (TIC) //, 24 //, 24 //, 24 //, 28 //, 10 //, 28 //, 10 //, 28 //, 28 /	Depth to Water	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1 9,4 9,4 9,3	pH Y, 2 7, 4 8, 5 8, 4 8, 3 8, 2 8, 0 8, 0 8, 0	Cond. (mS/cm) ,54 ,55 ,56 ,63 ,68 ,73 ,76 ,78	Turbidity (NTU) 79 104 101 60 39 29 25 13 16 12	DO (mg/l) 3,35 1.96 1.97 1.64 1.43 1.35 1.26 1.23 1.22	(mV) -177 -215 -210 -194 -182 -172 -167 -164 -162
MPLE DESTINATION	Time 0850 0855 0905 0905 0905 0925 0925 0935	Pump Rate (L/min.) 300 300 300 300 300 300 300 300	Quality Meter Total Gallons Removed .40 .80 .12 .66 2.0 2.4 2.8 3.2 3.6 4.0	Type(s) / Seri Water Level (TIC) //, 24 //, 24 //, 24 //, 28 //, 10 //, 28 //, 10 //, 28 //, 28 /	Depth to Water	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1 9,4 9,4 9,3	pH Y, 2 7, 4 8, 5 8, 4 8, 3 8, 2 8, 0 8, 0 8, 0	Cond. (mS/cm) ,54 ,55 ,56 ,63 ,68 ,73 ,76 ,78	Turbidity (NTU) 79 104 101 60 39 29 25 13 16 12	DO (mg/l) 3,35 1.96 1.97 1.64 1.43 1.35 1.26 1.23 1.22	(mV) -177 -215 -210 -182 -172 -172 -167 -164
MPLE DESTINATION Laboratory: CTE Delivered Via:	Time OSSO OSSS 0900 0905 0910 0715 0920 0935 0935 0910 000 0005 0005 0005 0005 0005 0005	Pump Rate (L/min.) 300 300 300 300 300 300 300 300 300 30	Quality Meter Total Gallons Removed .40 .80 .12 .16 2.0 2.4 2.8 3.2 3.6 4.0	Type(s) / Sen Water Level (TIC) //, 24 //,68 //,24 //,98 //2.10 //2.78 //2.35 //2.36 //2.74 //2.16 OBLEMS	Depth to Water	Temp. (Celcius) 9,3 8,7 8,7 8,7 9,1 9,4 9,4 9,3	pH Y, 2 7, 4 8, 5 8, 4 8, 3 8, 2 8, 0 8, 0 8, 0	Cond. (mS/cm) ,54 ,55 ,56 ,63 ,68 ,73 ,76 ,78	Turbidity (NTU) 79 104 101 60 39 29 25 13 16 12	DO (mg/l) 3,35 1.96 1.97 1.64 1.43 1.35 1.26 1.23 1.22	(mV) -177 -215 -210 -182 -172 -172 -167 -164 -162

2591543,xis

Well No.	<u>43B</u>						GMA-			
Key No.					_ Samplin	g Personnel		<u> </u>		
Well Head	round (ppm Ispace (ppm)			-	Date		Time In / Ou		
rren neau	ispace (phiii	·			-	AAeaniet	Farthy Clo	00/1 - 52		
WELL INFOR	MATION					,				
				TIC	BGL	Pur	np Start Time	1000)	
Reference Po	oint Marked or	n Casing	···			Pur	np Stop Time	***************************************		
Height of Ref.	. Pt. Relative	to Grade					Sample Time	1100		
Well Diamete	r			1 / "	-		Sample ID	<u>43B</u>		
Well Depth			21,13	17.19			Sampled for			
Screen Interv				16,13				/ HCL, 4 deg		
Water Table [6.02			() SVOC	s / 4 deg. AS	SP 95-2	
Intake Depth	of Pump/Tubi	ng		14.0]		(Total) / 4 deg	-	
								(Dissolved) /	-	
Redevelop?	Y N							(Total) / HNC		
	. WEODALL	ION						(Dissolved) /	4 deg. ASP	methods
VELL WATER		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1		() Other	(Specify)	,	
Length of Wate		15.11			1		year	uz Atta	muntion o	List.
Volume of War		F6			1					
Minutes of Pur	mping	50 1	4117							
VACUATION				7.3% P	in the	Evacuation I	Method: Baile	r / \ Dumn	. /	
	? Y 🕦		Type(s) / Seri		Souding	Pump Type:	Tico	() Fullip	-	
	Y N Water	Quality Meter Total Gallons	Water Level	Depth to	Horan U	Pump Type:	Tsco H	Turbidity	DO	ORP
oid well go dry?	Pump Rate (L/min.)	Quality Meter Total Gallons Removed	Water Level (TIC)	al Numbers:	Temp. (Celcius)	Pump Type:	Tsco	Turbidity (NTU)	DO (mg/l)	(mV)
Time	Pump Rate (L/min.)	Quality Meter Total Gallons Removed	Water Level (TIC)	Depth to	Temp. (Celcius)	Pump Type: 22, HAT pH 7.9	プラCO 計 Cond. (mS/cm) パ2	Turbidity (NTU)	DO (mg/l) Z.92	(mV) -/2/
Time	Pump Rate (L/min.)	Quality Meter Total Gallons Removed 0:24 0,52	Water Level (TIC) 8.60 8,00	Depth to	Temp. (Celcius) 9,1	Pump Type: -22, H/A; pH -7.9 -7.9	Cond. (mS/cm) /, 2 /, 2	Turbidity (NTU) 80 67	DO (mg/l) Z.92 Z.50	(mV) -121 -124
Time //// //// //// ///// ///// /////////	Pump Rate (L/min.) 200 200	Quality Meter Total Gallons Removed 0.24 0,52 0.78	Water Level (TIC) 8.60 8.00	Depth to	Temp. (Celcius) 9,1 9,1 9,2	Pump Type: 22, HAG pH 7,9 7,9 7,9	T5CO H Cond. (mS/cm) /, 2 /, 2 /, 2	Turbidity (NTU) 80 67	DO (mg/l) Z.92 Z.50 Z.13	(mV) -/2/ -/24 -/30
Time //005 //015 //015 //015	Pump Rate (L/min.) 200 200 200	Quality Meter Total Gallons Removed 0.24 0,32 0.78 1.04	Water Level (TIC) 8.60 8,00 7.77 7.69	Depth to	Temp. (Celcius) 9,1 9,1 9,2 9,1	Pump Type: 22, HA: pH 7,9 7,9 7,9 7,9	Cond. (mS/cm) 1, 2 1, 2 1, 2 1, 2	Turbidity (NTU) 80 67 36 26	DO (mg/l) Z.92 Z.5つ Z.13 J.81	(mV) -/2/ -/24 -/30 -/35
Time /005 /010 /015 /020 /025	Pump Rate (L/min.) 200 200 200 200 200	Quality Meter Total Gallons Removed 0:24 0:52 0:78 1:04 1:30	Water Level (TIC) 8.60 8,00 7.77 7.65 7.64	Depth to	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2	Pump Type: 22, HA: pH 7.9 7.9 7.9 7.9 7.9	Cond. (mS/cm) /, 2 /, 2 /, 2 /, 2	Turbidity (NTU) 80 67 36 26 24	DO (mg/l) 2.92 2.50 2.13 1.81	(mV) -121 -124 -130 -135 -136
Time ///// ///// ///// ///// ///// ///// ////	Pump Rate (L/min.) 200 20	Quality Meter Total Gallons Removed 0.24 0.52 0.78 1.04 1.30	Water Level (TIC) 8.60 8,00 7.77 7.69 7.64 7.64	Depth to	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,2	Pump Type: 22, HAT pH 7,9 7,9 7,9 7,9 7,9 7,9	Teco H Cond. (mS/cm) 1, 2 1, 2 1, 2 1, 2 1, 2	Turbidity (NTU) 80 67 36 26 24	DO (mg/l) Z.72 Z.50 Z.13 1.81 1.65 1,55	(mV) -121 -124 -130 -135 -136 -139
Time //005 //005 //005 //005 //005 //005 //005 //005 //005 //005	Pump Rate (L/min.) 200 200 200 200 200 200 200 2	Quality Meter Total Gallons Removed 0.24 0,32 0.78 1.04 1.30 1.56 1,82	Water Level (TIC) 8.60 8.00 7.77 7.65 7.64 7.64 7.60	Depth to	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,2	Pump Type: 22, HA; pH 7,9 7,9 7,9 7,9 7,9 7,9 7,9	Cond. (mS/cm) /, 2 /, 2 /, 2 /, 2 /, 2 /, 2 /, 2 /, 2	Turbidity (NTU) 80 67 36 26 24 17 16	DO (mg/l) Z.92 Z.50 Z.13 J.81 J.65 J.55 J.49	(mV) -/2/ -/24 -/30 -/35 -/36 -/39 -/40
Time /005 /005 /005 /005 /005 /005 /005 /0	Pump Rate (L/min.) 200 200 200 200 200 200 200 2	Quality Meter Total Gallons Removed 0, 52 0, 78 1,04 1,30 1,56 1,82 2,08	Water Level (TIC) 8.60 8.00 7.77 7.65 7.64 7.64 7.60	Depth to	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,1 9,2 9,1	pH 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.	Cond. (mS/cm) 1, 2 1, 2 1, 2 1, 2 1, 2 1, 2 1, 2 1, 2 1, 2	Turbidity (NTU) 80 67 36 26 24	DO (mg/l) Z.92 Z.50 Z.13 J.81 J.65 J.55 J.49 J.50	(mV) -121 -129 -130 -135 -136 -139 -140 -141
Time /005 /010 /015 /020 /025 /035 /035 /040	Pump Rate (L/min.) 200 200 200 200 200 200 200 2	Quality Meter Total Gallons Removed 0.24 0.52 0.78 1.04 1.30 1.56 1.82 2.08 2.34	Water Level (TIC) 8.60 8.00 7.77 7.65 7.64 7.64 7.60 7.60 7.59	Depth to	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,1 9,2 9,1	Pump Type: 22, HA; pH 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	Cond. (mS/cm) /, 2 /, 2 /, 2 /, 2 /, 2 /, 2 /, 2 /, 2 /, 2 /, 2	Turbidity (NTU) 80 67 36 26 27 17 16 12 11	DO (mg/l) Z.92 Z.50 Z.13 J.81 J.65 J.55 J.49 J.50 J.46	(mV) -121 -124 -130 -135 -136 -139 -140 -141
Time /005 /005 /005 /005 /005 /005 /005 /0	Pump Rate (L/min.) 200 200 200 200 200 200 200 2	Quality Meter Total Gallons Removed 0.24 0.52 0.78 1.04 1.30 1.56 1.82 2.08 2.08	Water Level (TIC) 8,00 7,77 7,65 7,64 7,64 7,60 7,60 7,59	Depth to	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,2 9,2 9,2 9,2 9,2 9,2	Pump Type: 22, HA; pH 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	Tsco H Cond. (mS/cm) 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,	Turbidity (NTU) 80 67 36 26 27 17 16 12 11	DO (mg/l) Z.92 Z.50 Z.13 1.81 1.65 1.55 1.49 1.50 1.46 1.35	(mV) -121 -124 -130 -135 -136 -139 -140 -141 -141
Time //// //// //// //// //// //// ////	Pump Rate (L/min.) 200 200 200 200 200 200 200 2	Quality Meter Total Gallons Removed 0.24 0.52 0.78 1.04 1.30 1.56 1.82 2.08 2.08	Water Level (TIC) 8.60 8.00 7.77 7.65 7.64 7.64 7.60 7.60 7.59	Depth to	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,1 9,2 9,1	pH 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.	Cond. (mS/cm) /, 2 /, 2 /, 2 /, 2 /, 2 /, 2 /, 2 /, 2 /, 2 /, 2	Turbidity (NTU) 80 67 36 26 27 17 16 12 11	DO (mg/l) Z.92 Z.50 Z.13 J.81 J.65 J.55 J.49 J.50 J.46	(mV) -121 -124 -130 -135 -136 -139 -140 -141
Time //// /// /// /// /// /// /// /// ///	Pump Rate (L/min.) 200 200 200 200 200 200 200 2	Quality Meter Total Gallons Removed 0.24 0.52 0.78 1.04 1.30 1.56 1.82 2.06 2.86	Water Level (TIC) 8,00 7,77 7,65 7,64 7,64 7,60 7,59 7,59 7,59	Depth to	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,2 9,2 9,2 9,2 9,0 9,1 9,0	Pump Type: 22, HAT pH 7,9 7,9 7,9 7,9 7,9 7,9 7,9 7,	Tsco H Cond. (mS/cm) /, Z	Turbidity (NTU) 80 67 36 26 27 17 16 12 11	DO (mg/l) Z.92 Z.50 Z.13 1.81 1.65 1.55 1.49 1.50 1.46 1.35	(mV) -121 -124 -130 -135 -136 -139 -140 -141 -141
Time //// /// /// /// /// /// /// /// ///	Pump Rate (L/min.) 200 200 200 200 200 200 200 2	Quality Meter Total Gallons Removed 0.24 0.52 0.78 1.04 1.30 1.56 1.82 2.06 2.86	Water Level (TIC) 8,00 7,77 7,65 7,64 7,64 7,60 7,59 7,59 7,59	Depth to Water	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,2 9,2 9,2 9,2 9,0 9,1 9,0	Pump Type: 22, HAT pH 7,9 7,9 7,9 7,9 7,9 7,9 7,9 7,	Tsco H Cond. (mS/cm) /, Z	Turbidity (NTU) 80 67 36 26 27 17 16 12 11	DO (mg/l) Z.92 Z.50 Z.13 1.81 1.65 1.55 1.49 1.50 1.46 1.35	(mV) -121 -124 -130 -135 -136 -139 -140 -141 -141
Time /// // // // // // // // // // // // /	Pump Rate (L/min.) 200 200 200 200 200 200 200 2	Quality Meter Total Gallons Removed 0.24 0.52 0.78 1.04 1.30 1.56 1.82 2.06 2.86	Water Level (TIC) 8,00 7,77 7,65 7,64 7,64 7,60 7,59 7,59 7,59	Depth to Water	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,2 9,2 9,2 9,2 9,0 9,1 9,0	Pump Type: 22, HAT pH 7,9 7,9 7,9 7,9 7,9 7,9 7,9 7,	Tsco H Cond. (mS/cm) /, Z	Turbidity (NTU) 80 67 36 26 27 17 16 12 11	DO (mg/l) Z.92 Z.50 Z.13 1.81 1.65 1.55 1.49 1.50 1.46 1.35	(mV) -121 -124 -130 -135 -136 -139 -140 -141 -141
Time //// /// /// /// /// /// /// /// ///	Pump Rate (L/min.) ZOO ZOO ZOO ZOO ZOO ZOO ZOO Z	Quality Meter Total Gallons Removed 0.24 0.52 0.78 1.04 1.30 1.56 1.82 2.08 2.60 2.86	Water Level (TIC) 8,00 7,77 7,69 7,69 7,60 7,59 7,59 7,60	Depth to Water	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,2 9,2 9,2 9,2 9,0 9,1 9,0	Pump Type: 22, HAT pH 7,9 7,9 7,9 7,9 7,9 7,9 7,9 7,	Tsco H Cond. (mS/cm) /, Z	Turbidity (NTU) 80 67 36 26 27 17 16 12 11	DO (mg/l) Z.92 Z.50 Z.13 1.81 1.65 1.55 1.49 1.50 1.46 1.35	(mV) -121 -124 -130 -135 -136 -139 -140 -141 -141
/005 /010 /015 /020 /025 /035 /040 /050 /055 inal	Pump Rate (L/min.) ZOO ZOO ZOO ZOO ZOO ZOO ZOO Z	Quality Meter Total Gallons Removed 0.24 0.52 0.78 1.04 1.30 1.56 1.82 2.08 2.60 2.86	Water Level (TIC) 8,00 7,77 7,69 7,69 7,60 7,59 7,59 7,60	Depth to Water	Temp. (Celcius) 9,1 9,1 9,2 9,1 9,2 9,2 9,2 9,0 9,1 9,0 0,0 0,0 0,0 0,0	Pump Type: 22, HAT pH 7,9 7,9 7,9 7,9 7,9 7,9 7,9 7,	Cond. (mS/cm) 1, 2 1,	Turbidity (NTU) 80 67 36 26 27 17 16 12 11	DO (mg/l) Z.92 Z.50 Z.13 1.81 1.65 1.55 1.49 1.50 1.46 1.35	(mV) -121 -124 -130 -135 -136 -139 -140 -141 -141

Well No. Kev No.	-16A FX-3	כ	<u> </u>	*****	Samplin	Site Name g Personnel				·
	ground (ppm				sampin	~		BRH / DE Time In / Ou	6	
	dspace (ppm					Weather	P. Hu	11110 11110C	70:73	
							7 20 17 2	1000, 43	307	
WELL INFOR	MATION			TIC	BGL	7 Du	umn Chart Tim	. 10:44		
Reference Pr	oint Marked o	n Casing		yes yes	DGL			e 10:45		
	f. Pt. Relative			175		-		e		>
Well Diamete		to Grade	······································	711		-		e <u>1150</u>	<u>) </u>	
Well Depth				50.85	=	-		1619		
Screen Interv	/al Denth			10.0	44-50	-	Sampled fo			
Water Table I	······································	***************************************		7.63		-		s / HCL, 4 deg		
	of Pump/Tub	ina		1,03 47'		-		Cs / 4 deg. AS		
make Depart	or rampride	1119		1-7/				(Total) / 4 de		
Redevelop?	Y(N)							(Dissolved) /		
								s (Total) / HN(
WELL WATER	R INFORMAT	TION					() Metal	s (Dissolved) /	4 deg. ASP	methods
Length of Wat			43.22		7		•			
Volume of Wa		<u> </u>	77.01	**************************************	1		Expuna	led P360	B-VOC	ک
Minutes of Pur		1			1		Vatura	l Atter	nuation	
E1/4 011 4 71 0 11					-	(M	SIMOD	collant	/ \	
EVACUATION			1	-6.0						
Volume of wate				יו מי	_/I	F-,	1 4 - 4 b 1. D - 11	() D		
		om well		VIU	-991	Evacuation	Method: Pall	er () Pump	(X) Z50	(1) Man
	? Y (N))			0	Pump Type:	Wiethod: Ball	er () Pump	(X) ISO 2 Bladd e	Pump
	? Y (N)	om well) Quality Meter			0	Pump Type:	Wiethod: Ball	er () Pump	(X) ISO Bladde	Rings
	? Y (N))		ial Numbers:	0	Pump Type:	wietnod: Bail	er () Pump	(X) ISO Bladde	Rungo
	? Y N Water	Quality Meter	Type(s) / Ser		0	Pump Type:	Cond.	T	DO TSO	
Did well go dry'	Pump Rate (L/min.)	Quality Meter	Type(s) / Ser	ial Numbers:	Horiba	-uzz	<u> </u>	Turbidity (NTU)		ORP (mV)
Did well go dry'	Pump Rate (L/min.)	Quality Meter Total Gallons	Type(s) / Ser Water Level (TIC)	Depth to	Horiba	-uzz	Cond.	Turbidity	DO	ORP
Did well go dry' Time /050	Pump Rate (L/min.)	Quality Meter Total Gallons Removed	Type(s) / Ser Water Level (TIC) /0.82 /0.90	Depth to	Horiba Temp. (Celcius)	-UΣΣ pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l) 4.%2	ORP (mV) - 224
Time // 50	Pump Rate (L/min.)	Total Gallons Removed #20 m 1200 m	Type(s) / Ser Water Level (TIC) /0.82 /0.90 //./9	Depth to	Horiba	pH 7.65	Cond. (mS/cm)	Turbidity (NTU) 8,2 4/66	DO (mg/l) 4.82	ORP (mV) -224 -126
Time 1050 1105	Pump Rate (L/min.)	Total Gallons Removed Harm	Type(s) / Ser Water Level (TIC) /0.82 /0.90 //./9	Depth to	Horiba Temp. (Celcius) 14.02 11.91	pH 7.65	Cond. (mS/cm) Co.35 7.03 G.94	Turbidity (NTU) 8,2 4/(06)	DO (mg/l) 4.%2	ORP (mV) -224 -126 -232
Time // 50 // 05 // 05 // 05	Pump Rate (L/min.) 400 m/	Total Gallons Removed #20 m 1200 m	Type(s) / Ser Water Level (TIC) 10.82 /0.90 //.19	Depth to	Horiba: Temp. (Celcius) 14.02 11.91 12.03	pH 7.65 8.06 7.83	Cond. (mS/cm) &.35	Turbidity (NTU) 82 4/66 10/72 4/74	DO (mg/l) 4.82 4.62 4.45 4.82	ORP (mV) -224 -126 -232 -232
Time /050 //05 //05 //05 //10	Pump Rate (L/min.) 400 m/ 400 m/	Quality Meter Total Gallons Removed HX M BOOM 1200 m 1600 m	Water Level (TIC) 10.82 10.90 i1.19 11.04 11.06	Depth to	Temp. (Celcius) 14.02 11.91 12.03 12.07	pH 7.45 8.04 7.83 7.88	Cond. (mS/cm) &.35 7,03 6,94 7,05 7,09	Turbidity (NTU) 82 4/66 /0/72 4/74 2/52	DO (mg/l) 4.82 4.62 4.45 4.82 4.67	ORP (mV) -224 -126 -232 -232 -232
Time //05/0 // 05/0 // 05/0 // 05/1 // 05/1 // 1/0 // 1/30	Pump Rate (L/min.) 400 m/ 400 m/ 400 m/ 400 m/	Quality Meter Total Gallons Removed Han Boom 1200 m/ 1600 m/ 2000 m/	Water Level (TIC) 10.82 10.90 11.19 11.04 11.06	Depth to	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98	pH 7.65 8.06 7.83 7.88 7.74	Cond. (mS/cm) &.35 7.03 6.94 7.05	Turbidity (NTU) 8,2 4/(06 10/72 4/74 2/52	DO (mg/l) 4.82 4.62 4.45 4.82	ORP (mV) -224 -126 -232 -232
Time /// CO // CO	Pump Rate (Limin.) 400 mi	Quality Meter Total Gallons Removed ###################################	Type(s) / Ser Water Level (TIC) /0.82 /0.90 //. /9 //. 04 //. 06 //. 6/ //. 57	Depth to	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69	Cond. (mS/cm) 6.35 7.03 6.94 7.05 7.09	Turbidity (NTU) 8,2 4/66 10/72 4/74 2/52 0/43	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.73 4.69	ORP (mV) -224 -126 -232 -232 -242 -216
Time 1050 1100 1110 1115 1130 1146 1135	Pump Rate (L/min.) 400 m/ 400 m/ 400 m/ 400 m/	Total Gallons Removed 40 m 1200 m 1400 m 2000 m 2466 m 2600 m	Type(s) / Ser Water Level (TIC) 10.82 10.90 11.19 11.04 11.06 11.57	Depth to	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57	Cond. (mS/cm) 6.35 7.03 6.94 7.05 7.09	Turbidity (NTU) 8,2 4/66 10/72 4/74 2/52 0/43	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.73	ORP (mV) -224 -126 -232 -232 -242 -226
Time /050 //05 ///05 ///05 ///05 ///05 ///05 ///05 ///05 ///05 ///05 ///05 ///05	Pump Rate (Limin.) 400 mi	Quality Meter Total Gallons Removed ### ## ### ### ### ### ### ### ### ###	Type(s) / Ser Water Level (TIC) 10.82 10.90 11.19 11.04 11.06 11.57	Depth to	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57	Cond. (mS/cm) 6.35 7.03 6.94 7.05 7.09	Turbidity (NTU) 82 4/66 /0/72 4/74 2/52 0/32 0/32 0/28 0/27	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.67 4.63 4.63	ORP (mV) -224 -126 -232 -232 -242 -226 -210
Time /050 //05 //05 ///	Pump Rate (L/min.) 400 m/	Total Gallons Removed HAM BOOM 1200 ml 1600 ml 2000 ml 2466 ml 2500 ml	Type(s) / Ser Water Level (TIC) 10.82 /0.90 /1.19 //.06 //.06 //.57	Depth to	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57 7.64 1.62	Cond. (mS/cm) 6.35 7.03 6.94 7.05 7.09	Turbidity (NTU) 82 4/66 10/72 4/74 2/52 0/32 0/32	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.73 4.69	ORP (mV) -224 -126 -232 -232 -242 -226 -210
Time /050 //05 //05 ///	Pump Rate (L/min.) 400 m/	Total Gallons Removed HAM BOOM 1200 ml 1600 ml 2000 ml 2466 ml 2500 ml	Type(s) / Ser Water Level (TIC) 10.82 /0.90 /1.19 //.06 //.06 //.57	Depth to	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57 7.64 1.62	Cond. (mS/cm) 6.35 7.03 6.94 7.05 7.09	Turbidity (NTU) 82 4/66 /0/72 4/74 2/52 0/32 0/32 0/28 0/27	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.67 4.63 4.63	ORP (mV) -224 -126 -232 -232 -242 -226 -210
Time /// SO // OS // OS // / OS // / S // ZO // 30 // 446 // 35 // 445 // 145 Final	Pump Rate (L/min.) 400 m/	Quality Meter Total Gallons Removed HOM 1200 ml 1200 ml 1200 ml 2000 ml 2466 ml 2500 ml 3700 ml 31000 ml	Water Level (TIC) 10.82 10.90 11.19 11.04 11.57 11.57 11.57	Depth to Water	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57 7.64 7.62 7.63	Cond. (mS/cm) &.35 7,03 6,94 7,05 7,09 7,12 7,22 7,23 7,19	Turbidity (NTU) 82 4/66 10/72 4/74 2/52 0/43 9/32 0/28 0/25	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.69 4.69 4.62 4.61	ORP (mV) -224 -126 -232 -232 -242 -226 -210
Time /// SO // OS // OS // / OS // / S // ZO // 30 // 446 // 35 // 445 // 145 Final	Pump Rate (L/min.) 400 m/	Quality Meter Total Gallons Removed HOM 1200 ml 1200 ml 1200 ml 2000 ml 2466 ml 2500 ml 3700 ml 31000 ml	Water Level (TIC) 10.82 10.90 11.19 11.04 11.57 11.57 11.57	Depth to Water	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57 7.64 7.62 7.63	Cond. (mS/cm) &.35 7,03 6,94 7,05 7,09 7,12 7,22 7,23 7,19	Turbidity (NTU) 82 4/66 10/72 4/74 2/52 0/43 9/32 0/28 0/25	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.69 4.69 4.62 4.61	ORP (mV) -224 -126 -232 -232 -242 -226 -210
Time // 50 // 00 // 00 // 00 // 05 //	Pump Rate (L/min.) 400 m/	Quality Meter Total Gallons Removed HAM BOOM 1200 m/ 1600 m/ 2000 m/ 2000 m/ 2600 m/ 3200 m/ 3600 m/ 3600 m/	Type(s) / Ser Water Level (TIC) 10.82 /0.90 //.19 //.06 //.57 //.57 //.57	Depth to Water	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57 7.64 7.62 7.63	Cond. (mS/cm) &.35 7,03 6,94 7,05 7,09 7,12 7,22 7,23 7,19	Turbidity (NTU) 82 4/66 /0/72 4/74 2/52 0/32 0/32 0/28 0/27	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.69 4.69 4.62 4.61	ORP (mV) -224 -126 -232 -232 -242 -226 -210
Time // 50 // 00 // 00 // 00 // 05 //	Pump Rate (L/min.) 400 m/	Quality Meter Total Gallons Removed HAM BOOM 1200 m/ 1600 m/ 2000 m/ 2000 m/ 2600 m/ 3200 m/ 3600 m/ 3600 m/	Type(s) / Ser Water Level (TIC) 10.82 /0.90 //.19 //.06 //.57 //.57 //.57	Depth to Water	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57 7.64 7.62 7.63	Cond. (mS/cm) &.35 7,03 6,94 7,05 7,09 7,12 7,22 7,23 7,19	Turbidity (NTU) 82 4/66 10/72 4/74 2/52 0/43 9/32 0/28 0/25	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.69 4.69 4.62 4.61	ORP (mV) -224 -126 -232 -232 -242 -226 -210
Time 1050 1100 1105 1110 1115 1120 1130 1146 1135 1145 1145 1145 1145	Pump Rate (L/min.) 400 m/	Quality Meter Total Gallons Removed HAM BOOM 1200 m/ 1600 m/ 2000 m/ 2600 m/ 3200 m/ 3600 m/ 3600 m/	Type(s) / Ser Water Level (TIC) 10.82 /0.90 //.19 //.06 //.57 //.57 //.57	Depth to Water	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57 7.64 7.62 7.63	Cond. (mS/cm) &.35 7,03 6,94 7,05 7,09 7,12 7,22 7,23 7,19	Turbidity (NTU) 82 4/66 10/72 4/74 2/52 0/43 9/32 0/28 0/25	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.69 4.69 4.62 4.61	ORP (mV) -224 -126 -232 -232 -242 -226 -210
Time /// CO // CO	Pump Rate (L/min.) 400 m/	Quality Meter Total Gallons Removed HAM BOOM 1200 m/ 1600 m/ 2000 m/ 2600 m/ 3200 m/ 3600 m/ 3600 m/	Type(s) / Ser Water Level (TIC) 10.82 /0.90 //.19 //.06 //.57 //.57 //.57	Depth to Water	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57 7.64 7.62 7.63	Cond. (mS/cm) &.35 7,03 6,94 7,05 7,09 7,12 7,22 7,23 7,19	Turbidity (NTU) 82 4/66 10/72 4/74 2/52 0/43 9/32 0/28 0/25	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.69 4.69 4.62 4.61	ORP (mV) -224 -126 -232 -232 -242 -226 -210
Time /// CO // CO	Pump Rate (L/min.) 400 m/ CTY E	Quality Meter Total Gallons Removed HOM 1200 ml 1200 ml 1200 ml 2000 ml 2000 ml 2466 ml 31000 ml 31000 ml	Type(s) / Ser Water Level (TIC) 10.82 /0.90 //.19 //.06 //.57 //.57 //.57	Depth to Water	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.38 11.20 11.20	pH 7.65 8.06 7.83 7.88 7.74 7.69 7.57 7.64 7.62 7.63	Cond. (mS/cm) &.35 7,03 6,94 7,05 7,09 7,12 7,22 7,23 7,19	Turbidity (NTU) 82 4/66 10/72 4/74 2/52 0/43 9/32 0/28 0/25	DO (mg/l) 4.82 4.62 4.45 4.82 4.67 4.69 4.69 4.62 4.61	ORP (mV) -224 -126 -232 -232 -242 -226 -210
Time /// CO // CO	Pump Rate (L/min.) 400 m/ CTY E Couries	Quality Meter Total Gallons Removed HOM 1200 ml 1200 ml 1200 ml 2000 ml 2000 ml 2466 ml 31000 ml 31000 ml	Type(s) / Ser Water Level (TIC) 10.82 /0.90 //.19 //.06 //.57 //.57 //.57	Depth to Water	Temp. (Celcius) 14.02 11.91 12.03 12.07 11.98 11.55 11.20 11.20 11.20 11.20	pH 7.65 8.06 7.83 7.74 7.69 7.57 7.64 7.62 7.63	Cond. (mS/cm) 6.35 7.03 6.94 7.05 7.09 7.12 7.23 7.23 7.19	Turbidity (NTU) 82 4/66 10/72 4/74 2/52 0/43 9/32 0/28 0/25	DO (mg/l) 4.82 4.62 4.45 4.67 4.73 4.69 4.63 4.62 4.62	ORP (mV) -224 -126 -232 -232 -242 -210 -208 -216 -207

Well No.	16 B-R					Site Name	GMA-	3		
Key No.	$\frac{Fx-37}{\text{pround (ppm)}}$				_ Samplir	ng Personnel	GAR/ 3	rcm		
Well Head	ispace (ppm)	<u>-</u>			-	Weather	1/26/02	Time In / Ou	it 10:40	13:15
7701111044	opado (ppin)	<u> </u>				Weauter	Fartly C	iondy, 40	2 -50 9/5	
WELL INFOR	MATION									
				TIC	BGL	Pur	np Start Time	10:50)	
Reference Po	oint Marked on	Casing		Yes			np Stop Time			
Height of Ref	. Pt. Relative	to Grade		+30'			Sample Time			
Well Diamete	r			2"				16-B-R	>	
Well Depth				16 45'		1	Sampled for			
Screen Interv	al Depth		· · · · · · · · · · · · · · · · · · ·	6.08-16.0	.1	1	•	:/HCL, 4 deg	ΔSD 05_1	
Water Table I				9.30'		-		Ss / 4 deg. AS		
Intake Depth	of Pump/Tubir	ng		12.9		1		(Total) / 4 de		
						-4		(Dissolved) /	-	OE 2
Redevelop?	Y N							(Dissolved) / s (Total) / HN(
•								(Dissolved)	_	
WELL WATER	INFORMATI	ON					() Motals () Other		4 deg. Aor	metrious
Length of Wat		7.15'			7					
Volume of Wa		1.17 ga	1/2-2			•	Expande	1 82601	3-0005	
Minutes of Pur	mping	130			1	Λ	satural	Attenu	ation	
					_	*/D0	P-7)	W.		
EVACUATION	INFORMATIO	NC				()	., ,,	<i>T</i>		
Volume of wate	er removed from	n well		Ziellon	<u>.</u>	Evacuation N	Method: Baile	er () Pump	(X)	
Did well go dry?						Pump Type:		mple Pro		Pump
	Water	Quality Meter	Type(s) / Se	rial Numbers:	Horiba	-uzz	9	7		<i>j</i> -
										
Time	Pump Rate	Total Gallons	Water	Depth	T					
,	(L/min.)	Removed	Level (TIC)	to Water	Temp.	pН	Cond. (mS/cm)	Turbidity (NTU)	DO (ma/l)	ORP
10:55	200ml		9.60		10. Z	7.68		84	(mg/l)	(mV)
11:00	200m)		10-15		9.2	8.32	1.16	139	5.19	-116
11:05	zooml		10.45	1	9.1	8.39	0.97	1	0.35	-189
11:10	150ml		10.68		8.9	8.40	0.76	203	0.14	-198
11:15	100:01		10.71		8,9	8.36	0.99	198	0.04	-197
11:20	90ml		10,77		8.8	8.33		 	0.00	197
11:25	90ml		10.81	 	8.6	8.31	1.02 1.08	170	0.00	-/97
7:30	90ml		10.90		5.5	8.27		144	0.00	-198
11:35	90 -1		10.73		8.4	8.28	1.15	117	0.00	-199
11:40	90:11		10.98		8.3	8.27	1.20	90	0.30	-200
11:45	90121	******	11.03		8.2	 		90	0.00	- 501
inal	73.77		11.6/2	 	5,7	8.28	1.23	65	0.00	-201
	<u> </u>				<u> </u>					
MISCELLANEC	OUS OBSERV	ATIONS/PR	OBLEMS	Jan. 11:11	P	1.1.+-4.	n	/ .	,	
			z.		. C (er, odo.	1	1885, MG	5hecn	
theh Tork	Sidition &		11:20:	58-16	11:40	= 2 Y = tu	11:50,00 11:55	3486W	2317	0: 18 ntu
* Weston	FPE coll	retril or	~1:+ -= 1	اد بر یک است	61 10	W J'	17.55	1.6 1/20	76.	20 10 10 10 10 10 10 10 10 10 10 10 10 10
		· · · · · · · · · · · /	VIII JEN	70 70	aruval 77	ICA HATIO	AEXPAN	ars VOC.	einaly 514	* * *
AMPLE DEST	INATION									
Laboratory:	~ = . =									
	<u> </u>									
Delivered Via:	Courier									2,
Delivered Via: Airbill #:	Courier				Field	Sampling Co	ordinator:	- Janes	tu	Z
	Courier				Field	Sampling Co	ordinator	Longo	, fu	<u></u>

	dspace (ppm)					Date	GARIJOE Y/Ze/oz Cloudy	Time In / Ou	it 10:10/	13:15
			***************************************			Weaute	1 (-10"3X)	40-50-1	PERION	al Sno
VELL INFOR	MATION			T TIO	T 561	- -	0			
2.6.		_ ·		TIC	BGL		ump Start Time			
	oint Marked or			1/48		_ P	ump Stop Time			
	f. Pt. Relative	to Grade		13-01		-	Sample Time			······································
Vell Diamete	<u>er</u>		· · · · · · · · · · · · · · · · · · ·	2"		-		16.B.R		
Vell Depth				16.45		4	Sampled fo			
creen Interv				6 08-16-03		4	() VOC	s / HCL, 4 deg	. ASP 95-1	
Vater Table			***************************************	9.30		4		Cs / 4 deg. AS		
ntake Depth	of Pump/Tubi	ng	***************************************	12.9		_		(Total) / 4 de	-	
							() PCBs	(Dissolved) /	4 deg. ASP	95-3
develop?	Y N							s (Total) / HN	-	
							() Metal	s (Dissolved)	4 deg. ASF	methods
	R INFORMAT						(×)Other	(Specify)		
ength of Wa	ter Column	7-15'					Expand	'd 82601	8-0000	
olume of Wa		1-177011) J1		1		Nature	1 AHen	notin-	
inutes of Pu	ımnina	130							nerron	
	inping	130						\		
						*	(DUP-	7)*		
/ACUATION	INFORMATI	ON		- 4			-			
ACUATION	INFORMATI er removed fro	ON		Zgallor	<u>-</u>	Evacuation	Method: Baile	er () Pump		_
ACUATION	N INFORMATION or removed from the control of the co	ON m well		•		Evacuation Pump Type	Method: Baile	er () Pump		Pamp
ACUATION	N INFORMATION or removed from the control of the co	ON m well	Type(s) / Ser	•	-3 Hariba	Evacuation Pump Type	-	er () Pump		Pamp
ACUATION	N INFORMATION INFO	ON m well Quality Meter		rial Numbers:		Evacuation Pump Type	Method: Baile	er () Pump		Parap
ACUATION	N INFORMATION or removed from the control of the co	ON m well Quality Meter Total	Water	rial Numbers:	Hariba	Evacuation Pump Type	Method: Baile:	er () Pump	Bludder	
ACUATION lume of wate d well go dry	N INFORMATI er removed fro ? Y ND Water	ON m well Quality Meter		rial Numbers:		Evacuation Pump Type	Method: Baile:	er () Pump	Bludder DO	ORP
ACUATION olume of wate d well go dry	N INFORMATI er removed fro ? Y N Water Pump Rate	ON m well Quality Meter Total Gallons	Water Level	nial Numbers:	Hariba Temp. (Celcius)	Evacuation Pump Type ームマン pH	Method: Baild: OFD Se	er () Pump	DO (mg/l)	ORP (mV)
/ACUATION olume of wate d well go dry Time	N INFORMATI er removed fro ? Y N Water Pump Rate (L/min.) . 90ml	ON m well Quality Meter Total Gallons	Water Level (TIC)	nial Numbers:	Temp. (Celcius)	Evacuation Pump Type	Method: Bailed: OFD Second. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
ACUATION blume of water discount well go dry Time	NINFORMATI er removed fro Water Pump Rate (L/min.) 90:nl	ON m well Quality Meter Total Gallons	Water Level (TIC) //-03	nial Numbers:	Temp. (Celcius)	Evacuation Pump Type	Cond. (mS/cm)	Turbidity (NTU) 58	DO (mg/l) 0.00	ORP (mV) -201
VACUATION olume of wate d well go dry	Pump Rate (L/min.) 90ml 90ml	ON m well Quality Meter Total Gallons	Water Level (TIC) #1-03 #1-10 #1.15	nial Numbers:	Temp. (Celcius) 9.4 9.5 8.6	Pump Type -6122 pH \$-26 \$-25	Cond. (mS/cm) /- 2 7 /- 29	Turbidity (NTU) 58	DO (mg/l) 0.00 0.00	ORP (mV) - 201 - 201
Time	NINFORMATI er removed fro Water Pump Rate (L/min.) 90:nl	ON m well Quality Meter Total Gallons	Water Level (TIC) //-03	nial Numbers:	Temp. (Celcius) 9.4 9.5 8.6 9.7	Pump Type	Cond. (mS/cm) 1.25 1.29 1.30	Turbidity (NTU) 61 55 54	DO (mg/l) 0.00 0.00 0.00	ORP (mV) -201 -201 -201
ACUATION blume of water discount well go dry Time	Pump Rate (L/min.) 90ml 90ml	ON m well Quality Meter Total Gallons	Water Level (TIC) #1-03 #1-10 #1.15	nial Numbers:	Temp. (Celcius) 9.4 9.5 8.6	Pump Type -6122 pH \$-26 \$-25	Cond. (mS/cm) /- 2 7 /- 29	Turbidity (NTU) 58	DO (mg/l) 0.00 0.00	ORP (mV) - 201 - 201
ACUATION blume of water discount well go dry Time	Pump Rate (L/min.) 90ml 90ml	ON m well Quality Meter Total Gallons	Water Level (TIC) #1-03 #1-10 #1.15	nial Numbers:	Temp. (Celcius) 9.4 9.5 8.6 9.7	Pump Type	Cond. (mS/cm) 1.25 1.29 1.30	Turbidity (NTU) 61 55 54	DO (mg/l) 0.00 0.00 0.00	ORP (mV) -201 -201 -201
ACUATION blume of water discounting the discou	Pump Rate (L/min.) 90ml 90ml	ON m well Quality Meter Total Gallons	Water Level (TIC) #1-03 #1-10 #1.15	nial Numbers:	Temp. (Celcius) 9.4 9.5 8.6 9.7	Pump Type	Cond. (mS/cm) 1.25 1.29 1.30	Turbidity (NTU) 61 55 54	DO (mg/l) 0.00 0.00 0.00	ORP (mV) -201 -201 -201
Time	Pump Rate (L/min.) 90ml 90ml	ON m well Quality Meter Total Gallons	Water Level (TIC) #1-03 #1-10 #1.15	nial Numbers:	Temp. (Celcius) 9.4 9.5 8.6 9.7	Pump Type	Cond. (mS/cm) 1.25 1.29 1.30	Turbidity (NTU) 61 55 54	DO (mg/l) 0.00 0.00 0.00	ORP (mV) -201 -201 -201
ACUATION blume of water discounting the discou	Pump Rate (L/min.) 90ml 90ml	ON m well Quality Meter Total Gallons	Water Level (TIC) #1-03 #1-10 #1.15	nial Numbers:	Temp. (Celcius) 9.4 9.5 8.6 9.7	Pump Type	Cond. (mS/cm) 1.25 1.29 1.30	Turbidity (NTU) 61 55 54	DO (mg/l) 0.00 0.00 0.00	ORP (mV) -201 -201 -201
ACUATION blume of water discount well go dry Time	Pump Rate (L/min.) 90ml 90ml	ON m well Quality Meter Total Gallons	Water Level (TIC) #1-03 #1-10 #1.15	nial Numbers:	Temp. (Celcius) 9.4 9.5 8.6 9.7	Pump Type	Cond. (mS/cm) 1.25 1.29 1.30	Turbidity (NTU) 61 55 54	DO (mg/l) 0.00 0.00 0.00	ORP (mV) -201 -201 -201
Time	Pump Rate (L/min.) 90ml 90ml	ON m well Quality Meter Total Gallons	Water Level (TIC) #1-03 #1-10 #1.15	nial Numbers:	Temp. (Celcius) 9.4 9.5 8.6 9.7	Pump Type	Cond. (mS/cm) 1.25 1.29 1.30	Turbidity (NTU) 61 55 54	DO (mg/l) 0.00 0.00 0.00	ORP (mV) -201 -201 -201

Well No	o. <u>GMA3</u>	3-Z				Site Name	6MA	-3		
	kground (ppm				Sampli	ng Personne	GAR1:	TCM		
	adspace (ppm			***************************************		Date Weathe	¥/26/02	_Time In / O	ut <u>/3:40/</u> /	'5'-3 D
	, (, , ,	,	· · · · · · · · · · · · · · · · · · ·		······	Weaute	ONTRE	7, 35-40	(C)±	
WELL INFO	RMATION									
				TIC	BGL	Pt	ump Start Time	e 14'.00		
	Point Marked o	X		Yes		_ Pi	ump Stop Time			
	ef. Pt. Relative	to Grade		-3"		_	Sample Time			
Well Diame	ter	· · · · · · · · · · · · · · · · · · ·		2"		_	Sample II	GMA3	_ح _	
Well Depth			,	15.04		_	Sampled fo	r.		
Screen Inte		4.94	<u>- 14.94'</u>	5.19- 15-1	r'		() VOC	s / HCL, 4 deg	J. ASP 95-1	
Water Table				8.87		_	() SVO	Cs/4 deg. A	SP 95-2	
Intake Depti	h of Pump/Tubi	ng		11-9'				s (Total) / 4 de	-	
Dodovolon?	V N								4 deg. ASP	
Redevelopr	Y N								O3, 4 deg. A	
MELL MATE	R INFORMAT	ION			,				/ 4 deg. ASP	methods
·					-		(X) Other	(Specify)		
Length of Wa Volume of W		6.07			-		Expanded	8760R	-1/0Ci	
Minutes of P		80 90	illon		-		7" - "Ta Ca	0 0000	0 - 00	
Willutes of F	umping	100			J					
EVACUATIO	N INFORMATI	ON						•		
Volume of wa	er removed fro	m well		3.5 qc 1100	٦ (Evacuation	Method: Baile	er / \ Dumn	() N	
										-
Did well go dr	y? Y 🐠			•		Pump Type	OED Y	mal D -	RI Ilan	i mo
Did well go dr		Quality Meter				Pump Type ・ひてこ	QED Sa	mple Pro	Bladder F	ump
Did well go dr	Water		Type(s) / Se	rial Numbers:	Horiba	Pump Type - ル こ こ	: <u>QED Sa</u>	mple Pro	Bladder	ump
Did well go dr		Total	Type(s) / Se	rial Numbers:	Horiba	-422				T.
	Water		Type(s) / Se	rial Numbers:		Pump Type - ル こ こ pH	Cond.	Turbidity	DO	ORP
	Water Pump Rate	Total Gallons	Water Level (TIC)	Depth	Horiba Temp. (Celcius)	pH	Cond.	Turbidity (NTU)	DO (mg/l)	ORP (mV)
Time	Pump Rate (L/min.)	Total Gallons	Type(s) / Sel	Depth	<u>Но-1 bu</u> Тетр.	pH 7,22	Cond. (mS/cm)	Turbidity (NTU) / % O	DO (mg/l)	ORP (mV)
Time	Pump Rate (L/min.)	Total Gallons	Water Level (TIC) \$.28	Depth	Temp. (Celcius) 9.1	pH 7,22 7.09	Cond. (mS/cm) 6.75	Turbidity (NTU) / 80	DO (mg/l) 3.70 0.37	ORP (mV) -103
Time /4:05 /4:10 /4:15	Pump Rate (L/min.) /50ml	Total Gallons	Water Level (TIC)	Depth	Temp. (Celcius) 9.1 9.3 9.5	pH 7,22 7.09 7.07	Cond. (mS/cm) 6.75 7.05	Turbidity (NTU) / PO / 90	DO (mg/l) 3.70 0.37	ORP (mV) -103 -101
Time 14:05 14:10 14:15 14:15 14:20	Pump Rate (L/min.) /50ml /50ml	Total Gallons	Water Level (TIC) \$.28 8.47	Depth	Temp. (Celcius) 9.1 9.3 9.5	pH 7, ZZ 7, 09 7,07 7,07	Cond. (mS/cm) 6.75 7.05 7.15	Turbidity (NTU) / 80 / 90 / 95 / 40	DO (mg/l) 3.70 0.37 0.00	ORP (mV) -103 -101 -104 -104
Time 14:05 14:10 14:15 14:20 14:25	Pump Rate (L/min.) /50ml /50ml /50ml /50ml	Total Gallons	Water Level (TIC) 多. Z 分 8. 4 7 る. 6 分 8. 7 3	Depth	Temp. (Celcius) 9.1 9.3 9.5 9.3	pH 7,22 7.09 7.07	Cond. (mS/cm) 6.75 7.05 7.15 7.17	Turbidity (NTU) /80 /90 /95 /60	DO (mg/l) 3.70 0.37 0.00 0.00	ORP (mV) -103 -101 -104 -104 -107
Time 14:05 14:10 14:15 14:20 14:25 14:30 14:35	Pump Rate (L/min.) /50ml /50ml /50ml /50ml /50ml	Total Gallons	Water Level (TIC) 8.28 8.47 8.63 8.73 8.79	Depth	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2	pH 7,22 7,07 7,07 7,07 7,07 7,05	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14	Turbidity (NTU) 180 190 195 160 130	DO (mg/l) 3.70 0.37 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -104 -107 -107
Time 14:05 14:10 14:15 14:15 14:20 17:25 17:30 17:35 17:40	Pump Rate (L/min.) /50ml /50ml /50ml /50ml /50ml /50ml /50ml	Total Gallons	Water Level (TIC) 8.28 8.47 8.68 8.73	Depth	Temp. (Celcius) 9.1 9.3 9.5 9.3	pH 7, 22 7.09 7.07 7.07 7.07	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.19 7.13	Turbidity (NTU) 190 195 140 130 105	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -104 -107 -107
Time 14:05 14:10 14:15 14:15 14:20 17:25 17:30 17:35 17:40	Pump Rate (L/min.) 150ml 150ml 150ml 150ml 150ml 120ml 120ml	Total Gallons	Water Level (TIC) \$.28 8.47 8.68 8.73 8.79 8.75	Depth	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1	pH 7, ZZ 7, 09 7, 07 7, 07 7, 07 7, 07 7, 05 7, 02 7, 03	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14 7.13	Turbidity (NTU) / 80 / 90 / 95 / 60 / 130 / 05 94 7 9	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -104 -107 -107 -108 -108
Time 14:05 14:10 14:15 14:20 14:25 14:35 14:45 14:45 14:50	Pump Rate (L/min.) /50ml /50ml /50ml /50ml /50ml /50ml /50ml /20ml /20ml /20ml	Total Gallons	Water Level (TIC) \$.28 8.47 8.68 8.73 8.79 8.75 8.75	Depth	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1	pH 7, 22 7,09 7,07 7,07 7,07 7,05 7,02 7,03	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.19 7.16 7.16 7.17	Turbidity (NTU) 190 190 195 160 130 105 94 79	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -106 -107 -107 -108 -103 -103
Time 14:05 14:10 14:15 14:20 14:25 14:30 14:45 14:50 14:55	Pump Rate (L/min.) /50ml /50ml /50ml /50ml /20ml /20ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.73 8.79 8.75 8.75	Depth	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1 9.3 9.5	pH 7, 22 7.07 7.07 7.07 7.07 7.05 7.02 7.03 7.03 7.03	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.19 7.16 7.17 7.16	Turbidity (NTU) 190 195 160 130 105 94 79 57	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -107 -107 -108 -103 -103 -103
Time 14:05 14:10 14:15 14:20 14:25 14:30 14:35 14:40 14:50 14:55	Pump Rate (L/min.) /50ml /50ml /50ml /50ml /50ml /50ml /20ml /20ml /20ml /20ml /20ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.79 8.75 8.75 8.75	Depth	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1	pH 7, 22 7,09 7,07 7,07 7,07 7,05 7,02 7,03	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.19 7.16 7.16 7.17	Turbidity (NTU) 190 190 195 160 130 105 94 79	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -106 -107 -107 -108 -103 -103
Time 14:05 14:10 14:15 14:20 14:25 14:25 14:35 14:45 14:55 inal	Pump Rate (L/min.) /50ml /50ml /50ml /50ml /50ml /50ml /20ml /20ml /20ml /20ml /20ml /20ml /20ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.79 8.75 8.75 8.75 8.77 8.77 8.78	Depth to Water	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1 9.3 9.5 9.7	pH 7, 22 7.09 7.07 7.07 7.07 7.05 7.02 7.03 7.03 7.04 7.04	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14 7.13 7.16 7.17 7.18	Turbidity (NTU) 190 195 160 130 105 94 79 57 46	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -107 -107 -107 -103 -103 -103
Time 14:05 14:10 14:15 14:20 14:25 14:35 14:45 14:45 14:55 inal	Pump Rate (L/min.) /50ml /50ml /50ml /50ml /50ml /50ml /20ml /20ml /20ml /20ml /20ml /20ml /20ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.79 8.75 8.75 8.75 8.77 8.77 8.78	Depth to Water	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1 9.3 9.5 9.7	pH 7, 22 7.09 7.07 7.07 7.07 7.05 7.02 7.03 7.03 7.04 7.04	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14 7.13 7.16 7.17 7.18	Turbidity (NTU) 190 195 160 130 105 94 79 57 46	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -107 -107 -107 -103 -103 -103
Time 14:05 14:10 14:15 14:20 14:25 14:35 14:45 14:45 14:55 inal	Pump Rate (L/min.) /50ml /50ml /50ml /50ml /50ml /50ml /20ml /20ml /20ml /20ml /20ml /20ml /20ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.79 8.75 8.75 8.75 8.77 8.77 8.78	Depth to Water	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1 9.3 9.5 9.7	pH 7, 22 7.09 7.07 7.07 7.07 7.05 7.02 7.03 7.03 7.04 7.04	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14 7.13 7.16 7.17 7.18	Turbidity (NTU) 190 195 160 130 105 94 79 57 46	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -107 -107 -107 -103 -103 -103
Time 14:05 14:10 14:15 14:20 14:25 14:35 14:35 14:45 14:55 14:55 inal	Pump Rate (L/min.) /50ml /50ml /50ml /50ml /50ml /50ml /20ml /20ml /20ml /20ml /20ml /20ml /20ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.79 8.75 8.75 8.75 8.77 8.77 8.78	Depth to Water	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1 9.3 9.5 9.7	pH 7, 22 7.09 7.07 7.07 7.07 7.05 7.02 7.03 7.03 7.04 7.04	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14 7.13 7.16 7.17 7.18	Turbidity (NTU) 190 195 160 130 105 94 79 57 46	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -107 -107 -107 -103 -103 -103
Time 14:05 14:10 14:15 14:20 14:25 14:35 14:45 14:45 14:55 inal	Pump Rate (L/min.) /50ml /50ml /50ml /50ml /50ml /50ml /20ml /20ml /20ml /20ml /20ml /20ml /20ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.79 8.75 8.75 8.75 8.77 8.77 8.78	Depth to Water	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1 9.3 9.5 9.7	pH 7, 22 7.09 7.07 7.07 7.07 7.05 7.02 7.03 7.03 7.04 7.04	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14 7.13 7.16 7.17 7.18	Turbidity (NTU) 190 195 160 130 105 94 79 57 46	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -107 -107 -107 -103 -103 -103
Time 14:05 14:10 14:15 14:20 14:25 14:35 14:45 14:45 14:55 inal IISCELLANE	Pump Rate (L/min.) 150ml 150ml 150ml 150ml 120ml 120ml 120ml 120ml 120ml 120ml 120ml 120ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.79 8.75 8.75 8.75 8.77 8.77 8.78	Depth to Water	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1 9.3 9.5 9.7	pH 7, 22 7.09 7.07 7.07 7.07 7.05 7.02 7.03 7.03 7.04 7.04	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14 7.13 7.16 7.17 7.18	Turbidity (NTU) 190 195 160 130 105 94 79 57 46	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -107 -107 -107 -103 -103 -103
Time 14:05 14:10 14:15 14:20 14:25 14:35 14:45 14:55 inal IISCELLANE LACH TURE AMPLE DES	Pump Rate (L/min.) 150ml 150ml 150ml 150ml 120ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.79 8.75 8.75 8.75 8.77 8.77 8.78	Depth to Water	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1 9.3 9.5 9.7	pH 7, 22 7.09 7.07 7.07 7.07 7.05 7.02 7.03 7.03 7.04 7.04	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14 7.13 7.16 7.17 7.18	Turbidity (NTU) 190 195 160 130 105 94 79 57 46	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -107 -107 -107 -103 -103 -103
Time 14:05 14:10 14:15 14:20 14:25 14:30 14:45 14:45 14:55 inal IISCELLANE Laboratory	Pump Rate (L/min.) 150ml 150ml 150ml 150ml 120ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.79 8.75 8.75 8.75 8.77 8.77 8.78	Depth to Water	Temp. (Celcius) 9.1 9.3 9.5 9.3 9.2 9.0 9.1 9.3 9.5 9.7	pH 7, 22 7.09 7.07 7.07 7.07 7.05 7.02 7.03 7.03 7.04 7.04	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14 7.13 7.16 7.17 7.18	Turbidity (NTU) 190 195 160 130 105 94 79 57 46	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -107 -107 -107 -103 -103 -103
Time 14:05 14:05 14:10 14:15 14:25 17:25 17:25 17:30 17:45 17:45 17:55 Inal IISCELLANE AMPLE DES Laboratory Delivered Via:	Pump Rate (L/min.) 150ml 150ml 150ml 150ml 120ml	Total Gallons Removed	Water Level (TIC) 8.28 8.47 8.68 8.73 8.79 8.75 8.75 8.75 8.77 8.77 8.78	Depth to Water	Temp. (Celcius) 9,1 9,3 9,5 9,3 9,2 9,0 9,1 9,3 9,5 9,5 9,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1	pH 7, 22 7.09 7.07 7.07 7.05 7.02 7.03 7.03 7.04 Pended	Cond. (mS/cm) 6.75 7.05 7.15 7.17 7.16 7.14 7.13 7.16 7.17 7.18	Turbidity (NTU) 190 190 195 160 130 105 94 79 57 46	DO (mg/l) 3.70 0.37 0.00 0.00 0.00 0.00 0.00 0.00	ORP (mV) -103 -101 -104 -107 -107 -108 -103 -107 -107

.

Reference Po	MATION					Date	GAR/J 1/zilo:	_Time In / Oנ <i>בול א 35~ץ ט</i> י	it 13:40/.	15:30
Reference Po	MATION									
Height of Ref				TIC	DCI.	- -	Ob 4 T			
Height of Ref	int Markad or	Coning			BGL		mp Start Time			
				Ye s		Pu	mp Stop Time			
		to Grade	·	-3"			Sample Time			
	<u> </u>			2"		-		GMA 3-	2	
Well Depth	I D II-			15.0%	ļ	_	Sampled fo	r.		
Screen Interv				4.94-14.94	<u> </u>	_		s / HCL, 4 deg		
Vater Table [8.77		_	() SVO	Cs / 4 deg. AS	SP 95-2	
itake Depth	of Pump/Tubir	ng		11.9			() PCBs	(Total) / 4 de	g. ASP 95-3	
edevelop? ELL WATER ength of Wate	RINFORMATI	ON 6.07			7		() Metals () Metals (×) Other		O3, 4 deg. A / 4 deg. ASF	SP methods
olume of Wa					1		Expun	ded 826	00-V00	ز
		80	11011		1					
	INFORMATION OF THE PROPERTY OF	ON m well	Type(s) / Ser	3.5gallo		Pump Type:		er () Pump mple Pre (mp
ACUATION olume of wate	INFORMATION TO Pump Rate	ON m well Quality Meter Total Gallons	Water Level	Depth	Horiba -	Pump Type:	QED S.,	Turbidity	Stacker Pe	ORI
/ACUATION plume of wate d well go dry?	Pump Rate (L/min.)	ON m well Quality Meter	Water Level (TIC)	ial Numbers:	Horiba Temp.	Pump Type: - U Z Z pH	Cond.	Turbidity (NTU)	DO (mg/I)	ORI (mV
/ACUATION lume of wate d well go dry? Time	Pump Rate (L/min.)	ON m well Quality Meter Total Gallons	Water Level (TIC) 8.78	Depth	Temp. (Celcius)	Pump Type: - U 22 pH 7-04	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORI (mV
ACUATION lume of wated well go dry? Time	Pump Rate (L/min.)	ON m well Quality Meter Total Gallons	Water Level (TIC)	Depth	Horiba Temp.	Pump Type: - U Z Z pH	Cond. (mS/cm) 7.18 7.20	Turbidity (NTU) -40	DO (mg/l)	ORI (mV -109
ACUATION lume of wated well go dry? Time	Pump Rate (L/min.)	ON m well Quality Meter Total Gallons	Water Level (TIC) 8.78	Depth	Temp. (Celcius)	Pump Type: - (1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORI (mV
/ACUATION plume of wate d well go dry?	Pump Rate (L/min.)	ON m well Quality Meter Total Gallons	Water Level (TIC) 8.78	Depth	Temp. (Celcius)	Pump Type: - (1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Cond. (mS/cm) 7.18 7.20	Turbidity (NTU) -40	DO (mg/l)	ORI (mV -109
VACUATION slume of wated well go dry? Time	Pump Rate (L/min.)	ON m well Quality Meter Total Gallons	Water Level (TIC) 8.78	Depth	Temp. (Celcius)	Pump Type: - (1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Cond. (mS/cm) 7.18 7.20	Turbidity (NTU) -40	DO (mg/l)	ORI (mV -109

12591543.xiq

BLASLAND, BOUCK LEE, INC.

6/9/99

School Company on the Control of the

Redevelop? Y N () Metals (Total) / HNO3, 4 deg. ASP met WELL WATER INFORMATION Length of Water Column Volume of Water in Well Volume of Water in Well Volume of Pumping EVACUATION INFORMATION Volume of water removed from well Did well go dry? Y N Water Quality Meter Type(s) / Serial Numbers: Pump Pump Total Gallons (L/min.) Removed (TIC) Water Vo. Z G. 89 O-244 990 S-GI Metals (Total) / HNO3, 4 deg. ASP met () Metals (Dissolved) / 4 deg. ASP met (x) Other (Specify) Standord 82603 / Appendix IX- Full Appendix IX+3 - Lis+ Evacuation Method: Bailer () Pump (X) Pump Type: QED Sc. mpk Pro Bladder Pro Water Gelcius) Full Appendix IX- Full Ap	Stop Time mple Time Sample ID	Pump Stop Time Sample Time Sample ID Sampled for: () VOCs / H () SVOCs / () PCBs (T () PCBs (D () Metals (T	BGL	Yes +0.8' Z'' 10.22' 85' 13.5' 0.16	~ IZ.7'	to Grade	oint Marked or f. Pt. Relative er val Depth	Reference P Height of Re Well Diamete Well Depth
Reference Point Marked on Casing Height of Ref. Pt. Relative to Grade Height of Ref. Pt. Relative to Grade ### Well Diameter ### Well Diameter ### Well Diameter ### Well Diameter ### No. 22' Sample I D. 54B Sample I D.	Stop Time mple Time Sample ID	Pump Stop Time Sample Time Sample ID Sampled for: () VOCs / H () SVOCs / () PCBs (T () PCBs (D () Metals (T	BUL	Yes +0.8' Z'' 10.22' 85' 13.5' 0.16	'- IZ.7'	to Grade	f. Pt. Relative er val Depth	Height of Re Well Diamet Well Depth
Height of Ref. Pt. Relative to Grade	mple Time Sample ID 548 ampled for:) VOCs / HCL, 4 deg. ASP 95-1) SVOCs / 4 deg. ASP 95-2) PCBs (Total) / 4 deg. ASP 95-3) PCBs (Dissolved) / 4 deg. ASP 95-3) Metals (Total) / HNO3, 4 deg. ASP methods) Metals (Dissolved) / 4 deg. ASP methods () Other (Specify) Sand 82608 Appendix IX-VOCs Appendix IX+3-Lis+ hod: Bailer () Pump (X)	Sample TimeSample IDSampled for: () VOCs / H () SVOCs / () PCBs (T () PCBs (D () Metals (T () Metals (T		+0.8' 2'' 10.22' 25'-13.5' 0.16	~ IZ.7'	to Grade	f. Pt. Relative er val Depth	Height of Re Well Diamet Well Depth
Well Diameter	Sample ID 548 ampled for:) VOCs / HCL, 4 deg. ASP 95-1) SVOCs / 4 deg. ASP 95-2) PCBs (Total) / 4 deg. ASP 95-3) PCBs (Dissolved) / 4 deg. ASP 95-3) Metals (Total) / HNO3, 4 deg. ASP methods) Metals (Dissolved) / 4 deg. ASP methods () Other (Specify) Sord 8260B / App and x IX-VOCs Approxix IX+3-Lis+ hod: Bailer () Pump (X)	Sample ID Sampled for: () VOCs / I () SVOCs / () PCBs (T () PCBs (D () Metals (T		2" 10.22' 25'13.5' 0.16	· 12.7′		er val Depth	Well Diamete Well Depth
Well Depth	ampled for:) VOCs / HCL, 4 deg. ASP 95-1) SVOCs / 4 deg. ASP 95-2) PCBs (Total) / 4 deg. ASP 95-3) PCBs (Dissolved) / 4 deg. ASP 95-3) Metals (Total) / HNO3, 4 deg. ASP methods) Metals (Dissolved) / 4 deg. ASP methods () Other (Specify) Service SCOB Appendix IX-VOCs Appendix IX+3-Lis+ hod: Bailer () Pump (X)	Sampled for: () VOCs / I () SVOCs / () PCBs (T () PCBs (D () Metals (T		10.22' 85'13.5' 0.16	· 17.7′	7.7	val Depth	Well Depth
Screen Interval Depth 7. 1 - 12.7) VOCs/HCL, 4 deg. ASP 95-1) SVOCs/4 deg. ASP 95-2) PCBs (Total)/4 deg. ASP 95-3) PCBs (Dissolved)/4 deg. ASP 95-3) Metals (Total)/HNO3, 4 deg. ASP methods) Metals (Dissolved)/4 deg. ASP methods) Other (Specify) Sord 8260B/Appendix IX-VOCs Appendix IX+3-Lis+ hod: Bailer () Pump (X)	() VOCs / F () SVOCs / () PCBs (T () PCBs (D () Metals (T () Metals (L		85'-13.5' 0.16	'u 12.7'	7.4		
Water Table Depth) SVOCs / 4 deg. ASP 95-2) PCBs (Total) / 4 deg. ASP 95-3) PCBs (Dissolved) / 4 deg. ASP 95-3) Metals (Total) / HNO3, 4 deg. ASP methods) Metals (Dissolved) / 4 deg. ASP methods \(\) Other (Specify) \(\) \(\	() SVOCs / () PCBs (T () PCBs (D () Metals (T () Metals (E		0.16				Screen Inter
Intake Depth of Pump/Tubing 9) PCBs (Total) / 4 deg. ASP 95-3) PCBs (Dissolved) / 4 deg. ASP 95-3) Metals (Total) / HNO3, 4 deg. ASP methods) Metals (Dissolved) / 4 deg. ASP methods () Other (Specify)	() PCBs (T () PCBs (D () Metals (T () Metals (E				····	Depth	
() PCBs (Dissolved) / 4 deg. ASP 95-3 () Metals (Total) / HNO3, 4 deg. ASP met () Metals (Dissolved) / 4 deg. ASP met () M) PCBs (Dissolved) / 4 deg. ASP 95-3) Metals (Total) / HNO3, 4 deg. ASP methods) Metals (Dissolved) / 4 deg. ASP methods () Other (Specify) Sond 8260B/Appendix IX-VOC Appendix IX+3-Lis+ hod: Bailer () Pump (X)	() PCBs (D () Metals (T () Metals (E				na		
Length of Water Column Volume of Water in Well Volume of Water removed from well Volume of water removed from well Did well go dry? Y N Water Quality Meter Type(s) / Serial Numbers: Water Quality Meter Type(s) / Serial Numb	hord 8260B/Appendix IX-VOC	(X) Other (S)				ON		•
Volume of Water in Well Volume of Pumping EVACUATION INFORMATION Volume of water removed from well Did well go dry? Y N Water Quality Meter Type(s) / Serial Numbers: Pump Time Pump Rate Gallons Level to (L/min.) Removed (TIC) Water (Celcius) Full Appandix IX+3 - Lis+ Evacuation Method: Bailer () Pump (X) Pump Type: PED 3c mplc Pro Bladder Pro Water Quality Meter Type(s) / Serial Numbers: ### Cond. Turbidity DO (ms/cm) (NTU) (mg/l) 1/9:20 1/9:25 1/9:45 Vo. 2 8.6 6.85 0.235 970 1.22 Vy:35 Vy:45 Vy:45	hod: Bailer () Pump (x)				,			
Minutes of Pumping Full Approxix IX+3-Lis+ EVACUATION INFORMATION Volume of water removed from well Did well go dry? Y N Water Quality Meter Type(s) / Serial Numbers: Time Pump Total Water Depth (L/min.) Removed (TIC) Water (Celcius) If the pump Total Water Depth (ms/cm) (NTU) (mg/l) If the pump Total Water Depth (ms/cm) (NTU) (mg/l) If the pump Total Water Depth (ms/cm) (NTU) (mg/l) If the pump Total Water Depth (ms/cm) (NTU) (mg/l) If the pump Total Water Depth (ms/cm) (NTU) (mg/l) If the pump Total Water Depth (ms/cm) (NTU) (mg/l) If the pump Type: AFD Semple Prov Bladder Provided Pr	hod: Bailer () Pump (x)	Standard 826				·		
EVACUATION INFORMATION Join well Sevacuation Method: Bailer () Pump (X)	hod: Bailer () Pump ($ ot\hspace{-1pt} \chi$)	Full Bonesti			70-7	1.67 001		
Time Rate (L/min.) Removed (TIC) Water (Celcius) PH Cond. (mS/cm) (NTU) (mg/l) 14:20	ED Sample Pro Bladder Primp	ump Type: PFD Se ma	F	ial Numbers:	Type(s) / Ser		? Y N	
147:25		1 1 1	• 1	to	Level	Gallons	Rate	Time
147:25	244 990 5.61 -100	6.29 0-244 5	10.Z		1.85		140m1	14:20
19:35 19:46 19:45		.85 0.235	8.6		2.52		140:01	
19:45 19:45								
14:45								
				ļ				···
19:30								
								19:50
		1 1						
inal			1	ļ				·

Well No		54B				Site Nam		EA1		
Key No					Sampli	ng Personne	DEG1	BRH		
	ground (ppm		0			Dat	0 4/26/0	z Time In / O	ut_8.54	7
Well Hea	idspace (ppm	1) <u> </u>	<u> </u>			Weathe	_ /1.1/	<u> Chencois</u>		
WELL INFO	RMATION									
				TIC	BGL	7 P	ump Start Tim	e 09/6	")	
Reference F	oint Marked o	n Casing		V			ump Stop Tim			
	ef. Pt. Relative			17		- '	Sample Time)	
Well Diamet				1711		-	•			
Well Depth			·····			9.03	Sample II		D	
Screen Inter	val Denth				90,37		Sampled fo			
Water Table					8.5-13	4 ~		s / HCL, 4 de		
	of Pump/Tubi	ina			-dilai	1.21		Cs/4 deg. A		
тиаке Бера	r Or F unip/ r ubi	ıng			5				eg. ASP 95-3	
Redevelop?	(C) 11								4 deg. ASP	
Kedeveloh	(Y) N						_ •		O3, 4 deg. A	
18/51 1 14/4 75									/4 deg. ASP	methods
	RINFORMAT				· 		(★) Other			
Length of Wa		1 7.5	82-		1.		· Full 1	APPEUDIX	IK +3	
Volume of W			1,27							
Minutes of Pu	ımping									
EVACUATION	LINEODALATI	O.11								
			'n	-3,5	,					
Volume of wat			•	<u> </u>	-		Method: Baile			
Did well go dry	-					Pump Type	W-22 1	50/50	peristalti	
	Water	Quality Meter	Type(s) / Ser	ial Numbers:	U-22 H	toriba Flo	w Hurough	Cell /	2100 P H	och
	Pump	Total	Water	Domath	Turbidi	LY MOTE	P /		· •	
Time	Rate	Gallons	Level	Depth to	Temp.	pH	Cond.	Turbidity	50	000
	(L/min.)	Removed	(TIC)	Water	(Celcius)	Pii	(mS/cm)	(NTU)	DO (mg/l)	ORP
0915	100ml	1820	4.50	il max	7.62	6.84	0.454	386	9.08	(mV)
0920	200 ml	.264	4.90		7.79	6.88		,		
0925	50m/	.220	5.21		8:10		0.456	332	5.82	-102
0930	.050	.396	5,21		7.89	7.01	0.447	512	9.48	-93
0935	.050	.462	5.21				0 440	690	10,11	- 95
0940	.050		5.21		7.66	7.10	0.431	757	11.86	-95
0945	T	.528			7,52	7.13	6,428	898	11.92	-94
	1050	1594	5.21		7.44	7.14	0.422	1000	12.06	- 93
0950	,050	1660	5.21		7.52	7.15	0.420	1000	11.98	-92
0955	1050	. 126	5.21		7.62	7.16	6.46	1000	11.84	-90
<u> /000 </u>	,050	,792	5.21		7.98	7.18	0.411	1000	11.62	-90
/605	1050	. 858	5.21							-90
Final										
MISCELLANE					COLLEC	TED VS	ing A 1	SI SPOSHBL	Е ТЕГГО) RHLER
FULLINE D	VRGE:	+16HL4 -	WEBD Z	HARE I	so odor	NO SHE	25N .		***	
FINAL RIPE	ac. HIB	HLY TUR	ND. NO.	ODOO N	O SHEPPI					
SAMPLE DEST					ELL EL					
	СТ	- -								
Delivered Via:	Coi									
		C L LO AY								
Almii #'	A / /	b						_		
Airbill #:	N	4			Field S	Sampling Co	ordinator:	GAR		

3/3

Well No. Key No					Samplin	Site Name		=r		
	ground (ppm) 0.0		····	Campin	g reisoillei Date			it 1200/16	
	dspace (ppm			***************************************	-	Weather	35		5NOW	· <i>U</i>
		·					05	P KAIN	5000	
WELL INFOR	RMATION									
				TIC	BGL	7 Pur	mp Start Time	1705		
Reference P	oint Marked o	n Casing		V			mp Stop Time	***************************************		
Height of Re	f. Pt. Relative	to Grade		+0.8"		1	Sample Time			
Well Diamete				2"		1	Sample ID		, , , , , , , , , , , , , , , , , , , 	
Well Depth		· · · · · · · · · · · · · · · · · · ·		9.41		-	•		<u> </u>	·····
Screen Interv	val Denth			7.7'-12.7'	,	1	Sampled for		100.05.4	
Water Table				1.05		-{		/ HCL, 4 deg		
	of Pump/Tubi	na				-		cs/4 deg. AS		
intake Deptil	or Fumpriubl	139	***************************************	19'		J		(Total) / 4 de	•	
Redevelop?	v (1)								4 deg. ASP 9	
Redevelop	Y (N)								D3, 4 deg. AS	
18/27 : 18/4	n INIFART	1011						-	4 deg. ASP	methods
WELL WATER		···,			 -		(X) Other	(Specify)		
Length of Wa		8.36			_		FULL A	PRENDIX	TY +3	
Volume of Wa		1-36,	Mons						, -	
Minutes of Pu	ımping	250			_					
Volume of wate Did well go dry	? ① N	m well Quality Meter		ial Numbers:			Method: Baile			
	Pump	Total	Water	Depth				T		
Time	Rate	Gallons	Level	to	Temp.	pН	Cond.	Turbidity	DO	ORP
	(L/min.)	Removed	(TIC)	Water	(Celcius)		(mS/cm)	(NTU)	(mg/l)	(mV)
1205	100		1.30	ļ	7.5	6.04	0.43	600	4.83	5
1220	.100		5,21		6.7	6.47	0.34	760	8.04	-41
1300	. 50		6.02		6.8	6.33	0.28	920	9.25	-45
1400	.50		6.08		6.6	6.33	0.31	910	9.01	-46
1500	.50		6.08		6.3	6.36	0.26	987	9.45	-48
						0.50		10.1	1.75	78

1									L	

Final										
					<u> </u>					
MISCELLANEO THAL PURG THAL PURG	ous observ CGC: Wol E: HIGHLY	PLATELY T L TURBID.	DBLEMS H	E voci co sheav i	UECTED U'	SING A) SPO SABLE	TEFLON	BAILFR	
				,					······································	
AAADI = n=	#13 1 A may									
SAMPLE DEST	_	<u>-</u>								
Laboratory:	<u> </u>	ヒ								
Delivered Via:	CT+E	COURLIER								
Airbill #:	NA				Field S	Sampling Co	ordinator:	GAR		
	1							2017		

CHAIN OF CU ODY RECORD

CT&E Environmental Services Inc.

Laboratory Division

• Alaska

• Maryland • Michigan 3

www.cteesi.com

CLIENT				J:::11	CT&E	Referen	cellii	影響	西 理/257	al and	加热	Wite.	製物で高	F.Jaki	T	£:1.14	CE AND AND	THE STATE OF THE S	9128
CONTACT	PHONE N	10: (413 P	22-1104	1	训练	州開	的量								PA	SE 7	OF		
PROJECT: Baseline Semi-Armediantes Sample REPORTS TO:	SITE:	E. P.H.	fi-U-G	MA- 2	No.	SAMPLE TYPE	Preserv Used	t		i				T		- [編	批准		
		4		. Fr. 1	C	C =	Analysis Require	d /_	JE .	/				1	1	/==/	村田田		
INVOICE TO:	FAX NO:	(315) 443	-9161	di .	ST.	COMP G =	3	00	8.± /	' /	' /	' /	/ /	/ /	/ /	/ /			
	. P.O. NUM	IBER: 201.	F6.001		A I	G = GRAB	/								i./				
SAMPLE IDENTIFIC		DATE	TIME	MATRIX	RI		1		1	/	/	/:			/:	/ had	REMAR		
CANADA SAB		4/29/02	12:10	Water	121	GI	2	10	1	11	1 11	11.11	1	(JI PC		1798
Trip Blank		4/29/02		Wat !!	االحا	GI	N		推进。	3	1 1 1	引出		ij.	i'	-	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
EUROMENIA NET			Vt. 0.	1111161	1.4	::((1)	种	剛	jş.	278 ************************************	1	d.j.	4 3	1 .	j.	J1121	100%		
			i	11/16/1.	T. HE	朝推	胇	iri.	1.	L.Y.	: iri	1.40	1.	ij: ;	1	211	列制網		
HERBERT L			1	154	7 10	+ 1:	1.1	1 10 to 1	: ·)8			i.	11			影響機	
				,'';\\	1 4	1.	: !	100) -	:	1#1 181		4	HANN			
ANGERITAL:			_	: 1.		(4.70) (4.70)		*								i.D.li	54.44		
BANKERALE:				*		8 1										1131	的計劃	CHARGE THE PARTY OF THE PARTY O	
				1		. No. 15	2007	(a)								Link			
Collected/Relinquished By: (1)	Dele			8 - +	F 8 1	4	1	10.				* 2			52	Linu		O MAN	
Gray Robusio	Date 4/3 0/02	Time \$:00	Received B	y		2	· 被加速性 1000年20	ping c	arrier				Same	les Re	celvéd Project	Cotr(C	(da) 485	, থেট	
Helinddished By: (2)	Date	Time	Received B	By: :: - -	112:511		46. 14.7	1101 - 14	liverable	1132134	iremen	ts:	Chain	of Cus	stody S	eal (Circ	о b)		
Relinquished By: (3)				¥ 1 - *			-		12.			135	INTAC	2. 10. 1	自主经过少	STATE MADE A		eseni.	
riounquiatieu by. (3)	Date	Time	Received B	By: { : ,			Requ	uested	Turnard	ound Ti	me and	Spec	lal Inst	ruction		i di	THE PARTY NAMED IN		
Relinquished By: (4)	Date	Time	Becelved F	rile idi	10.014				light.		7010	und		200		13			
F - p -		111.0	Received F	or Laborato	100	建模型					5, 3				1 1,				
			Control of the second	and the state of t	CENT C 613	white and the second	1 4 19 00	新州州省 为	MARKET IN		114	41 . 71 .		100	1 (31)	V2.200715744	些似状态线	1000 FEB. 400	

CHAIN OF CUCODY RECORD

CT&E Environmental Services Inc.
Laboratory Division

• Louisiana

Alaska

www.cteesl.com

1						_													10月1日
CLIENT: BI	BL.			¥.		CT&E	Referen	ce Mi	HIP	即河	10.76	. 1	用。		1, 1			7.1	To the second
CONTACT: G	rega Rabasco	PHONE N	10: (413) 8	22-118	V	4,1,1	国用其特		WAR.	711	27/7/		1			PAG	E_/_	OF	<u>/ ' </u>
PROJECT: Ba	rega Kabasco selice Semi-Annu undwater Sampli	SITE:	F. P.H.	0 11-61	40 7	No.	SAMPLE TYPE	Preserve Used	alives									51	1913
REPORTS TO:	,	1		11.10-67	14-3	C	95	Analysis Require		1/3	7	7.5	1	1	1		/ /		- :-
Vii	k smith	FAX NO:	(315) 445	- 9/6/		Ņ	C = COMP	3	16		/& ,	Alfendation	30 5	Litte Mastio	/ /	/ /	' /		11,34
INVOICE TO:				1101	6 2 H	A	G =	7	37	7/	32/	* /	4 5 5	*2	/	/	/		10 1 11 1
		P.O. NUM	BER: 20	1.86.00	,	N .	GRAB	/i	1	8.73	1			7 3	/		/		- 計劃機
ALAB NO H	· SAMPLE IDENTIFIC		DATE	TIME	MATRIX	R.		7, 7, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,		100	2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 ×	Et Pan	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$	/:		/- :	DEM	ARKS!
是一种	GMA3-6		4/25/02	17:15	Water	12	GI	2	10	ii.		_					,,		PO ST
北海湖湖北	43A	9	1/24/02	9:40	Water	7	IG!	11.17	1 11	12	5								
对一种执	43 B		4/26/02	11:00	Water	711	GII	: 1	1:1	۰۶	5			1			Filter	1 171	14.19.11.12.12.12.12.12.12.12.12.12.12.12.12.
行為關鍵	16A	·	4/26/02	11:50	Water	21	GI	er i	.4 1	'z	5	4	10	- 1	-	-	to be	1.11	村村村 经
制料	16 B-R		4/24/02	12:10	Water	711	IG		1	2		1	10			-+	the 1	66 Haz	有限的现在分
時期開	GMA3-Z		4/26/02		Water	# 2	1G 1-		10.5		5	_				-	- [-1]	the serie	大型 化基础
金属網膜	Dup-7		4/24/02	-	Water	7	G			2	101			-		\dashv	- 1, 1		日本をいるがは1月
超過期	Trip Blank		4/26/02					*		2	5						- 100	.i	小学生等200g
MINNIN.	- 11/2 STEEN		11-70-2		Water	2	G			2			ē .					# 1 th	行行が通り行
新期期							HEY.	_					_					4 14	日本語
Collected/Relin	nquished By: (1)	Date	Time	Received	Avr. :	, , , , , ,	(diagrams of	WIAMID.	estimic	est a mari	data.	e Palite	ta alteria	17 504-20	11123	的概念	山海海道
Relinquisted B		Date Y/zg/oz	16:10		m l	28	2	Shi	pping C 中 pping Z	arter icket N	o de		irs	Tem	le di ure	oc.			悉 收回
Helinquished B	y: (2) Vif	Date 4/20/02	Time	Received I	Ву: .	, N		Spe	clal Del	liverab	le Requ	ulreme	nts:	Chair	of Cus	ody St	al (Giro	e)	
Relinquished B	ly: (3)	Date	Time	Received I	Die		4 1	+ 1	1-51-7	11 .				INTA	CT	B	OKEN		ABSENII
			,,,,,	rieceived				Req ゴル	uested	Turnar	round T	ime ar	nd Spec	cial Inst	tructions	i , s			
Relinquished B	y: (4)	Date	Time .	Received F	or Laborato	ory By:	- P	;;	i s s	8.8			19		1	¥07	30 J	1. 1.	
	_ 8			- 1	ing at			111					\$ ±			14.1	HAN	À de la company	
10E0: One and it							117119			_	0					_	114	7 1 1	门,对西北京的

CHAIN OF CUS ODY RECORD

CT&E Environmental Services Inc.

Locations Nationwide

• Alaska

Maryland : • Michigan
 New Jersey • West Virginia

www.cteesi.com

The second second	Kafalikana i								**:	_					-				11.5	
CLIENT B				- 12	出國幣	CT&E	Referen	ce li	制料		le le le	棚!		201	- 17.07		11124		45	160
CONTACT:	regg Rabasco	PHONE	NO: (4/3) 2	822-118	y	個問題	開開網			Mark.		HIT	8		130	PA	GE_' <u>/</u>	OF_	1	74
PROJECT	Legg Kabasco	SITE:	E. P. Hsf	1-1-6m	1- 2	No.	SAMPLE TYPE	Preservi Used	tives		8							2511	2. P	
REPORTS TO:	: 17 F		C. 7771371	114 0717	7.3	C.	C=	Analysis Required	/~	10,1	\int_{-}^{-}		T	7	1	7	1		***.	<i>ii</i>
学 表	Smith	FAX NO:	(315) 475	-9/6/		N T.	COMP	3	5000	18	/ /	/ /	/	/	/		/ /		7.7	
INVOICE TO:	4					À	G = GRAB		ل تھ	He nuadion	/		/				./		: 8	
	9. 4a	. P.O. NUM	IBER: 201.	86.001	x.	N E	GIAD		13	¥.3		/	/	/			/			
(LABNO	SAMPLE IDENTIFIC	CATION	DATE	TIME	MATRIX	R	357		1 XX	1			/	/	/ .				= 1	-
	DOZA .		4/23/02	10:15	Water	7	G	2.	5					\leftarrow	$\overline{}$	f -			ARKS	-
	51-14		4/23/0z	11:00	Water	2	G	2											CBs and	,
	39D		4/23/02	12:10	Water	7	G	2	5								FITE	red M	tered by	7
	GMA3-4	91	4/23/02	12:55	Water	٦.	G	2	, ·								the	11	Tered by	
	\$ x = 1			6): :-	î.		8								The	/u.b.	#/	-
	11.73	,		#	la la	150		3 1									not !	-	P. 1 C	
TO AND THE PROPERTY OF THE PRO				*	741														Blank for	-
	A 7 17		8		2.1	9 20	V (a)		9		÷								les is on	
	Y 10' 10				*	1		1.2	1 -										ted 4/2 de	
	de ako			· · · · · · · · · · · · · · · · · · ·	- 4				i.								C6310	oy a-	1ed 1/23/0	
	ngulshed By: (1)	Date 4/24/02	17:50	Received I	By:	1/1	X			amer:				3 10 2	oles Re	400	-1	Circle) (Y	EST NO.	*
Stelling Caled	1 / 2) / 1 / S	Date //23/22	Time	Received I	By: ////			: Spe	ial De	AL \$1-2 1 49-5	711.41 E 14	ılremen	ts:	Chair	of Cus	stody S	eal: (Ci	cle)		は、
Relinquished B	Dy: (3)	Date	Time	Received I	Bych lada		111111	* 30,5445	jų.	ŧ		*		INTA	CT, H	iện E	ROKEN	指揮	ABSENT	鰲
								100	1.0			ime and			ruction	s:				
Relinguished B	y: (4)	Date -	Time	Received F	or Laborato	ory By:) - -				(9)				2 2 T		A STANSON
1258 Greenbri	er Street Charleston,	WV 25311	Tel: (304)	346-0725	Fax: (304	346-07	61	14.11		2 5 2								- 1. C	定作特別的社会 定作特別的發展	He S

CHAIN OF GUS ODY RECORD CT&E Environmental Services Inc. Laboratory Division

• Louisiana

• Maryland

• Maryland • Michigan
• New Jersey • West Virginia

www.cteesl.com

The state of the s	o o r Isses	far and a few time	es frait abriki	L'Actibie at Tella	m-2r a torus	+4 #2% a #22 #24	artis manage	16143								_				
BBL		医视动性	HIPSHIF	阿洲村	CT&E	Referen	CD I			社會特	West	Mary Service	72.	1165						ı
CONTACT GREEN RELIGIONS	PHONE N	10: (413) 8	1111111	则辨识朴	到對	開腿			W.		MAI:		111	制剂	PAC	BE	OF_	;	l l	ı
PROJECT BESSET AT SEMI-Annual	SITE:	E. P. Hst.	11-64	الجالم	No.	SAMPLE TYPE	Preserva Used	lives								9869				ı
REPORTS TO LANGE OF THE PARTY O		- 7 1 11377	1 1	,- <u>,</u> ,	C	C=	Analysis Required	1/00	100	05 CO 8/4/19 cm J. 1.	/,	14: VOC M.	12	J	7	1 1		25 36		
The same of the	FAX NO: (315) 445	- 9161	100	N.	COMP	3	0	1	18 1	3	3	1 3	/ /	/ ,	/ /		35.85 E		ı
INVOICE TO A LAW HILL			1.45	hitatildi-	I A	G = -		8/	* /	0 /	5./	18 Jan 19 19 19 19 19 19 19 19 19 19 19 19 19	33	_/	/	/		9 "	1 3	ı
	P.O. NUM	BER: 20	1.84.00		Z	GRAB	/>	3	/4	1	13	**	3		/			40 10€6 (200 - 20		ı
LABINO SAMPLE IDENTIFICAT	ION .	DATE		MATRIX	R		1	70	1	和	100	1 2 1 3 1 4 1 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1			/	/	BEM	ARKS	1.4.4 1.1	l
MW-39-E		4/25/02	9:05	W.T.U	 	G	12	5	1, 1		-				$\overline{}$			20121		ŀ
GB.		4/25/02	11:10		1211	GIII	V4.00	141	12	10								cGi an		ı
78B-R	i :	4/25/02	11.20		36	S.	11111	3111	2		.,		-			Filter	ed N	1. tals a.		ı
16C	7. (0)		15.20	Water.	均川:	اجا	2	7- 11	12	10	4	So	-			to 60	filt	erel by		ı
16 E		41-1		Water			_	5	Key =		14			0		the A	4.4	JAN 6	- 1-1	
SHOTE SHOP IN		4/25/02	15.25	Water	#	G	ک	5										41.5		Section 1889
Trip Blunk		Ylzsloz		Water	2	G	2	1:				_						Line		100
				artine,	1. 1		77	- 4										11 12		20.00
				# <u>1</u> .	in the		+0											ı.		100
				FC.	*-	3			1									11/2	. 34	
				90	F 42 3											-	*)			100
	Dale	Time	Received E	y: -1 . /	1.	-(4	(Shir	ping C	arrier:	utainent	Jaffa Warry	sidhi cen	Samo	los Po	oolund	Cold? (C	(a) 5 (1)	_	HENN	1
Relinquished By: (2)	1/25/02	18:00	Si	-6	2		開加達	抗排制	11代表				11-044	324 W.	严重动动		different and	小小时		
Relinquished By: (2)	Date	Time	Received E	Z:	2		1100	-	11-14-17-1	lo:	語言			-		"是一个	-	The Particular of Defendance	物质	4.4
	1.1.			26800	t ²		Spec	cial De	iverab	le Requ	ılremer	nts:	Chain	of Cus	tody S	eal: (Circ	le)			1 1 1 1 1
	1/25/02				2 1 2		-(1)	, E					INTAC	Ti ir	E	ROKEN		ABSENT		
Relinquished By: (3)	Date	Time	Received E	By:			Requ	iested	Tumai	round T	lme an	d Spec	ial Inst					**!!!	1	4.0
10000000000000000000000000000000000000			្នងនឹ		3 B	¥.	5/2	ndor	17	urna	-04-	1 7,	me					: "!		1372517
Relinquished By: (4)	Date	Time .	Received F	or Laborato	ry By:	VAV	1+1	- 2 ⁶⁰												11.13
		7 2 2	110	13	7.1															7.5
Contract of the Contract of th	(V 05044	(c.d)	10	F 2 1 3 7	A - 12	- t		0.00					1							3

Appendix C

LNAPL Monitoring and Recovery Data



GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

Well	Measuring Point		Depth to	Depth to	LNAPL	Groundwater	LNAPL	Removal
Number	Elevation	Measured	Water	LNAPL	Thickness	Elevation	Daily	Total for Well
	(ft)		(ft BMP)	(ft BMP)	(ft)	(ft AMSL)	(liters)	(liters)
51-11	994.66	1/2/2002	7.62		0.00	987.04	0.000	0.00
51-11	994.66	1/7/2002	9.86	ngan ngan	0.00	984.80	0.000	
51-11	994.66	2/12/2002	9.75		0.00	984.91	0.000	
51-11	994.37	2/28/2002	9.69		0.00	984.68	0.000	
51-11	994.37	3/25/2002	8.84		0.00	985.53	0.000	
51-11	994.37	4/30/2002	8.50		0.00	985.87	0.000	
51-11	994.37	5/22/2002	7.75		0.00	986.62	0.000	
51-11	994.37	6/26/2002	8.63		0.00	985.74	0.000	
51-12	996.75	1/2/2002	7.84		0.00	988.91	0.000	0.00
51-12	996.75	1/7/2002	7.95		0.00	988.80	0.000	
51-12	996.75	2/12/2002	7.52		0.00	989.23	0.000	
51-12	996.55	2/28/2002	DRY		0.00	N/A	0.000	
51-12	996.55	3/25/2002	7.28		0.00	989.27	0.000	
51-12	996.55	4/30/2002	7.28		0.00	989.27	0.000	
51-12	996.55	5/22/2002	7.11	***	0.00	989.44	0.000	
51-12	996.55	6/26/2002	7.52		0.00	989.03	0.000	
51-13	997.65	1/2/2002	DRY		0.00	<987.64	0.000	0.00
51-13	997.65	1/7/2002	DRY	***	0.00	<987.64	0.000	
51-13	997.65	2/12/2002	DRY		0.00	<987.64	0.000	
51-13	997.42	2/28/2002	DRY		0.00	<987.41	0.000	
51-13	997.42	3/25/2002	DRY		0.00	<987.41	0.000	
51-13	997.42	4/30/2002	DRY		0.00	<987.41	0.000	
51-13	997.42	5/22/2002	DRY		0.00	<987.41	0.000	
51-13	997.42	6/26/2002	DRY		0.00	<987.41	0.000	

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

Well	Measuring Point	Date	Depth to	Depth to	LNAPL	Groundwater	LNAPL	Removal
Number	Elevation (ft)	Measured	Water (ft BMP)	LNAPL (ft BMP)	Thickness (ft)	Elevation (ft AMSL)	Daily (liters)	Total for Well (liters)
51-14	996.77	1/2/2002	11.60		0.00	985.17	0.000	0.00
51-14	996.77	1/7/2002	11.70		0.00	985.07	0.000	0.00
51-14	996.77	2/7/2002	11.71		0.00	985.06	0.000	
51-14	996.77	2/12/2002	11.75		0.00	985.02		
51-14	996.77	3/25/2002	11.48		0.00	985.29	0.000	
51-14	996.77	4/23/2002	11.13		0.00	985.64		
51-14	996.77	4/30/2002	10.95		0.00	985.82		
51-14	996.77	5/22/2002	10.71		0.00	986.06	0.000	
51-14	996.77	6/26/2002	10.98		0.00	985.79	0.000	
51-15	996.43	1/2/2002	11.82	11.20	0.62	985.19	0.380	0.73
51-15	996.43	1/8/2002	12.14	11.31	0.83	985.06	0.000	0.73
51-15	996.43	2/12/2002	11.79	11.23	0.56	985.16	0.350	
51-15	996.43	3/25/2002	11.49	11.05	0.44	985.35	0.330	
51-15	996.43	4/30/2002	10.71	10.53	0.18	985.89	0.000	
51-15	996.43	5/22/2002	10.35	10.22	0.13	986.20	0.000	
51-15	996.43	6/26/2002	10.62	10.46	0.16	985.96	0.000	
51-16	996.46	1/2/2002	9.50		0.00	986.96	0.000	0.00
51-16	996.46	1/8/2002	9.55		0.00	986.91	0.000	0.00
51-16R	996.39	2/22/2002	11.62	11.52	0.10	984.86	0.000	
51-16R	996.39	3/25/2002	11.20	10.99	0.10	985.39	0.000	
51-16R	996.39	4/30/2002	10.51	10.50	0.01	985.89	0.000	
51-16R	996.39	5/22/2002	10.19	10.16	0.01	i i		
51-16R	996.39	6/26/2002	10.75	10.40	0.03	986.23	0.000	
			10.75	טד.טג	0.33	985.97	0.000	

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

Well	Measuring Point		Depth to	Depth to	LNAPL	Groundwater	LNAPL	Removal
Number	Elevation	Measured	Water	LNAPL	Thickness	Elevation	Daily	Total for Well
	(ft)		(ft BMP)	(ft BMP)	(ft)	(ft AMSL)	(liters)	(liters)
51-17	996.43	1/2/2002	11.62		0.00	984.81	0.000	3.01
51-17	996.43	1/8/2002	11.03	*****	0.00	985.40	0.000	
51-17	996.43	2/5/2002	11.34		0.00	985.09	0.000	
51-17	996.43	2/12/2002	12.25	11.03	1.22	985.31	0.750	
51-17	996.43	3/25/2002	12.01	10.80	1.21	985.55	0.745	
51-17	996.43	4/30/2002	11.52	10.28	1.24	986.06	0.757	
51-17	996.43	6/26/2002	11.43	10.20	1.23	986.14	0.760	
51-18	997.31	1/2/2002	12.05	***	0.00	985.26	0.000	0.00
51-18	997.31	1/7/2002	12.10	W0 W1 AND .	0.00	985.21	0.000	
51-18	997.31	2/12/2002	12.03		0.00	985.28	0.000	
51-18	997.31	3/25/2002	11.64		0.00	985.67	0.000	
51-18	997.12	4/30/2002	11.13		0.00	985.99	0.000	
- 51-18	997.12	5/22/2002	10.82		0.00	986.30	0.000	
51-18	997.12	6/26/2002	11.11		0.00	986.01	0.000	
51-19	996.50	1/2/2002	11.92	11.25	0.67	985.20	0.410	2.65
51-19	996.50	1/7/2002	11.90	11.35	0.55	985.11	0.000	2.00
51-19	996.50	2/12/2002	11.90	11.33	0.57	985.13	0.350	4
51-19	996.50	3/25/2002	11.66	11.03	0.63	985.43	0.390	
51-19	996.43	4/30/2002	11.21	10.51	0.70	985.87	0.379	
51-19	996.43	5/22/2002	10.41	10.25	0.16	986.17	0.640	
51-19	996.43	6/26/2002	11.24	10.45	0.79	985.92	0.485	

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

Well	Measuring Point	Date	Depth to	Depth to	LNAPL	Groundwater	LNAPL	Removal
Number	Elevation	Measured	Water	LNAPL	Thickness	Elevation	Daily	Total for Well
	(ft)		(ft BMP)	(ft BMP)	(ft)	(ft AMSL)	(liters)	(liters)
51-21	996.35	1/2/2002	15.34	15.33	0.01	981.02	0.000	545.09
51-21	996.35	1/9/2002	16.46	***	< 0.01	979.89	109.777	
51-21	996.35	1/16/2002	16.58	16.55	0.03	979.80	0.000	
51-21	996.35	1/23/2002	15.63	16.58	0.05	980.77	0.000	
51-21	996.35	1/31/2002	16.87	16.49	0.38	979.83	109.777	
51-21	996.35	2/6/2002	16.46	16.45	0.01	979.90	0.000	
51-21	996.35	2/13/2002	16.40	16.38	0.02	979.97	0.000	
51-21	996.35	2/20/2002	17.38	16.37	1.01	979.91	0.000	
51-21	996.35	3/6/2002	16.31		< 0.01	980.04	0.000	
51-21	996.35	3/13/2002	16.25	16.21	0.04	980.14	109.777	
51-21	996.35	3/20/2002	16.27		< 0.01	980.08	0.000	
51-21	996.35	3/27/2002	16.27		< 0.01	980.08	0.000	
51-21	996.35	4/3/2002	15.85	ANT THE THE	< 0.01	980.50	0.000	
51-21	996.35	4/10/2002	15.80	15.79	0.01	980.56	109.774	
51-21	996.35	4/17/2002	15.69		< 0.01	980.66	0.000	
51-21	996.35	4/24/2002	15.72		< 0.01	980.63	105.988	
51-21	996.35	5/2/2002	15.61		< 0.01	980.74	0.000	
51-21	996.35	5/15/2002	15.43		< 0.01	980.92	0.000	
51-21	996.35	6/5/2002	15.55	15.54	0.01	980.81	0.000	
51-21	996.35	6/12/2002	15.35		< 0.01	981.00	0.000	
51-21	996.35	6/19/2002	15.41		< 0.01	980.94	0.000	
51-21	996.35	6/26/2002	15.60		< 0.01	980.75	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

Well	Measuring Point		Depth to	Depth to	LNAPL	Groundwater	LNAPI	Removal
Number	Elevation	Measured	Water	LNAPL	Thickness	Elevation	Daily	Total for Well
	(ft)		(ft BMP)	(ft BMP)	(ft)	(ft AMSL)	(liters)	(liters)
59-1	996.72	1/2/2002	DRY		0.00	<985.39	0.000	0.00
59-1	996.72	1/7/2002	DRY		0.00	<985.39	0.000	
59-1	996.72	2/12/2002	DRY		0.00	<985.39	0.000	
59-1	996.72	3/25/2002	DRY		0.00	<985.39	0.000	
59-1	997.52	4/30/2002	DRY		0.00	<986.19	0.000	
59-1	997.52	5/22/2002	DRY		0.00	<986.19	0.000	
59-1	997.52	6/26/2002	DRY		0.00	<986.19	0.000	
59-3	997.79	1/2/2002	13.40	12.65	0.75	985.09	0.460	3.17
59-3	997.79	1/7/2002	13.59	12.65	0.94	985.07	0.000	
59-3R	997.64	2/25/2002	12.81		0.00	984.83	0.000	
59-3R	997.64	3/25/2002	13.21	12.33	0.88	985.25	0.540	
59-3R	997.64	4/30/2002	12.80	11.79	1.01	985.78	0.606	
59-3R	997.64	5/22/2002	12.89	11.39	1.50	986.15	0.925	
59-3R	997.64	6/26/2002	12.63	11.60	1.03	985.97	0.635	
59-7	997.96	1/2/2002	13.45	12.92	0.53	985.00	0.325	2.02
59-7	997.96	1/7/2002	13.47	12.98	0.49	984.95	0.000	
59-7	997.96	2/5/2002	14.08	12.91	1.17	984.97	0.000	
59-7	997.96	2/12/2002	13.56	12.73	0.83	985.17	0.510	
59-7	997.96	3/25/2002	13.66	12.50	1.16	985.38	0.715	
59-7	997.96	4/30/2002	12.77	12.00	0.77	985.91	0.473	
59-7	997.96	5/23/2002	11.74	11.71	0.03	986.25	0.000	
59-7	997.96	6/26/2002	11.99	11.90	0.09	986.05	0.000	
111A	997.57	1/8/2002	14.95		0.00	982.62	0.000	0.00
111B	996.75	1/8/2002	14.50	**-	0.00	982.25	0.000	0.00
111B	996.75	2/6/2002	14.50		0.00	982.25	0.000	0.00

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

Well	Measuring Point		Depth to	Depth to	LNAPL	Groundwater	LNAPL	Removal
Number	Elevation (ft)	Measured	Water (ft BMP)	LNAPL (ft BMP)	Thickness (ft)	Elevation (ft AMSL)	Daily (liters)	Total for Well (liters)
114A	986.16	1/9/2002	9.81		0.00	976.35	0.000	0.00
114B	984.98	1/9/2002	6.53	***	0.00	978.45	0.000	0.00
114C	986.68	1/9/2002	9.29		0.00	977.39	0.000	0.00
16A	991.77	1/8/2002	9.23		0.00	982.54	0.000	0.00
16A	991.77	2/11/2002	9.22		0.00	982.55	0.000	0.00
16A	991.77	4/26/2002	7.63		0.00	984.14	0.000	
16B-R	994.87	2/5/2002	9.57		0.00	985.30	0.000	0.00
16B-R	994.87	4/26/2002	9.30	=~=	0.00	985.57	0.000	0.00
16C	991.47	1/8/2002	20.87		0.00	970.60	0.000	0.00
16C	991.47	2/11/2002	12.04		0.00	979.43	0.000	0.00
16C	991.47	4/25/2002	7.30		0.00	984.17	0.000	
16E	992.14	1/8/2002	17.95		0.00	974.19	0.000	0.00
16E	992.14	2/11/2002	17.60		0.00	974.54	0.000	0.00
2A	994.16	1/7/2002	9.24	***	0.00	984.92	0.000	0.00
2A	994.16	2/12/2002	9.04	***	0.00	985.12	0.000	0.00
2A	994.16	4/23/2002	8.55		0.00	985.61	0.000	
34B	1,000.56	1/2/2002	DRY	***	0.00	<983.56	0.000	0.00
34B	1,000.56	1/8/2002	15.71		0.00	984.85	0.000	0.00
34B	1,000.56	2/12/2002	OBSTRUCTED		0.00	N/A	0.000	
34B	1,000.56	3/25/2002	15.38		0.00	985.18	0.000	
34B	1,000.56	4/30/2002	14.67	400 Mb ma	0.00	985.89	0.000	
34B	1,000.56	5/22/2002	14.35	60 90 90	0.00	986.21	0.000	
34B	1,000.56	6/26/2002	14.57		0.00	985.99	0.000	

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

Well	Measuring Point	Date	Depth to	Depth to	LNAPL	Groundwater	LNAPI	. Removal
Number	Elevation (ft)	Measured	Water (ft BMP)	LNAPL (ft BMP)	Thickness (ft)	Elevation (ft AMSL)	Daily (liters)	Total for Well
35B	997.36	1/2/2002	12.51		0.00	984.85	0.000	0.00
35B	997.36	1/8/2002	12.61		0.00	984.75	0.000	0.00
35B	997.36	2/12/2002	12.56		0.00	984.80	0.000	
35B	997.36	3/25/2002	12.35		0.00	985.01	0.000	
35B	997.36	4/30/2002	11.83		0.00	985.53	0.000	
35B	997.36	5/22/2002	11.48	****	0.00	985.88	0.000	
35B	997.36	6/26/2002	11.76		0.00	985.60	0.000	
39B	991.74	1/7/2002	OBSTRUCTED		0.00	N/A	0.000	0.00
39D	992.16	1/7/2002	7.29		0.00	984.87	0.000	
39D	992.16	2/13/2002	7.48		0.00	984.68	0.000	0.00
39D	992.16	4/23/2002	6.65		0.00	985.51	0.000	
39E	992.21	1/7/2002	6.96		0.00	985.25	0.000	0.00
39E	992.21	2/12/2002	6.69		0.00	985.52	0.000	0.00
39E	992.21	4/25/2002	6.05	-	0.00	986.16	0.000	
43A	993.79	1/8/2002	11.02		0.00	982.77	0.000	1 0 00
43A	993.79	2/8/2002	10.05		0.00	983.74		0.00
43A	993.79	4/16/2002	8.11		0.00	985.68	0.000 0.000	
43A	993.79	4/26/2002	5.85		0.00	987.94	0.000	
43B	993.61	1/8/2002	6.64		0.00	986.97	0.000	0.00
43B	993.61	2/8/2002	6.26		0.00	987.35	0.000	0.00
43B	993.61	4/16/2002	5.89		0.00	987.72	0.000	
43B	993.61	4/26/2002	6.02	~~~	0.00	987.59	0.000	
50A	992.07	1/9/2002	4.45		0.00	987.62	0.000	0.00
50A	992.07	2/12/2002	4.13		0.00	987.94	0.000	0.00
50B	991.76	4/16/2002	3.12		0.00	988.64	0.000	0.00

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

Well	Measuring Point	Date	Depth to	Depth to	LNAPL	Groundwater	LNAPL	Removal
Number	Elevation (ft)	Measured	Water (ft BMP)	LNAPL (ft BMP)	Thickness (ft)	Elevation (ft AMSL)	Daily (liters)	Total for Well (liters)
51-5	996.44	1/2/2002	12.27	11.42	0.85	984.96	0.520	1.47
51-5	996.44	1/7/2002	12.29	11.34	0.95	985.03	0.000	
51-5	996.44	2/12/2002	12.36	11.54	0.82	984.84	0.505	
51-5	996.44	3/25/2002	11.81	11.10	0.71	985.29	0.440	
51-5	996.44	4/30/2002	10.72	10.63	0.09	985.80	0.000	
51-5	996.44	5/22/2002	10.30	10.25	0.05	986.19	0.000	
51-5	996.44	6/26/2002	10.55	10.51	0.04	985.93	0.000	
51-6	997.36	1/2/2002	11.55		0.00	985.81	0.000	0.00
51-6	997.36	1/7/2002	11.61		0.00	985.75	0.000	
51-6	997.36	2/12/2002	11.70	ent, 400 Mb	0.00	985.66	0.000	
51-6	997.36	3/25/2002	11.54		0.00	985.82	0.000	
51-6	997.36	4/30/2002	11.09		0.00	986.27	0.000	
51-6	997.36	5/22/2002	10.78	****	0.00	986.58	0.000	
51-6	997.36	6/26/2002	11.00		0.00	986.36	0.000	
51-7	996.81	1/2/2002	11.20		0.00	985.61	0.000	0.00
51-7	996.81	1/7/2002	10.68		0.00	986.13	0.000	0.00
51-7	996.81	2/12/2002	9.97		0.00	986.84	0.000	
51-7	996.81	3/25/2002	DRY		0.00	<981.81	0.000	
51-7	997.08	4/30/2002	11.14		0.00	985.94	0.000	
51-7	997.08	5/22/2002	10.79		0.00	986.29	0.000	
51-7	997.08	6/26/2002	10.99		0.00	986.09	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA LNAPL MONITORING AND RECOVERY DATA JANUARY - JUNE 2002

Well	Measuring Point	Date	Depth to	Depth to	LNAPL	Groundwater	LNAP	L Removal
Number	Elevation (ft)	Measured	Water (ft BMP)	LNAPL (ft BMP)	Thickness (ft)	Elevation (ft AMSL)	Daily (liters)	Total for Wel
51-8	997.08	1/2/2002	13.10	11.90	1.20	985.10	0.740	5.22
51-8	997.08	1/7/2002	13.29	11.94	1.35	985.05	0.000	3.22
51-8	997.08	2/12/2002	13.43	11.94	1.49	985.04	0.920	
51-8	997.08	3/25/2002	13.11	11.72	1.39	985.26	0.860	
51-8	997.08	4/30/2002	12.70	11.20	1.50	985.78	0.860	
51-8	997.08	5/22/2002	12.19	10.86	1.33	986.13	0.820	
51-8	997.08	6/26/2002	12.56	11.05	1.51	985.92	0.930	
51-9	997.70	1/2/2002	9.71		0.00	987.99	0.930	0.00
51-9	997.70	1/7/2002	10.85		0.00	986.85	0.000	0.00
51-9	997.70	2/12/2002	11.83		0.00	985.87	0.000	
51-9	997.70	3/25/2002	11.32		0.00	986.38	0.000	
51-9	997.70	4/30/2002	10.25		0.00	987.45	0.000	
51-9	997.70	5/22/2002	10.36		0.00	987.34	0.000	
51-9	997.70	6/26/2002	10.86		0.00	986.84	0.000	
54B	987.96	1/9/2002	1.30		0.00	986.66	0.000	0.00
54B	987.96	2/13/2002	1.06	40 40 40	0.00	986.90	0.000	0.00
54B	987.96	4/16/2002	1.08		0.00	986.88	0.000	
54B	987.96	4/24/2002	0.16		0.00	987.80	0.000	-
54B	987.96	4/26/2002	1.21		0.00	986.75	0.000	
54B	987.96	4/29/2002	1.05		0.00	986.91	0.000	
6B	993.01	1/7/2002	6.42		0.00	986.59	0.000	0.00
6B	993.01	2/7/2002	6.05		0.00	986.96	0.000	0.00
6B	993.01	4/25/2002	6.17		0.00	986.84	0.000	
74B	995.54	1/9/2002	7.57		0.00	987.97	0.000	1 000
78B-R	988.83	2/4/2002	2.14		0.00	986.69		0.00
78B-R	988.83	4/16/2002	1.76		0.00	987.07	0.000	0.00
78B-R	988.83	4/25/2002	2.14		0.00	987.07	0.000 0.000	

V:\GE_Pittsfield_CD_GMA_3\Reports and Presentations\Spring 2002 GW Monitoring Report\
1262AppC1.xls Page 9 of 12

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

Well	Measuring Point	Date	Depth to	Depth to	LNAPL	Groundwater	LNAPL	Removal
Number	Elevation	Measured	Water	LNAPL	Thickness	Elevation	Daily	Total for Well
	(ft)		(ft BMP)	(ft BMP)	(ft)	(ft AMSL)	(liters)	(liters)
82B	990.08	1/7/2002	5.65		0.00	984.43	0.000	0.00
82B	990.08	2/7/2002	5.19		0.00	984.89	0.000	
89A	985.76	1/8/2002	4.38		0.00	981.38	0.000	0.00
89B	986.03	1/8/2002	OBSTRUCTED		0.00	N/A	0.000	0.00
89D	985.42	1/8/2002	8.30		0.00	977.12	0.000	0.00
90A	988.07	1/8/2002	6.39	W	0.00	981.68	0.000	0.00
90B	989.10	1/8/2002	7.46		0.00	981.64	0.000	0.00
95A	987.18	1/9/2002	7.27		0.00	979.91	0.000	0.00
95B	988.72	1/9/2002	8.95		0.00	979.77	0.000	0.00
95C	988.16	1/9/2002	FROZEN		0.00	N/A	0.000	0.00
GMA3-2	991.94	2/5/2002	8.03		0.00	983.91	0.000	0.00
GMA3-2	991.94	4/26/2002	8.87		0.00	983.07	0.000	
GMA3-4	994.60	2/7/2002	8.13		0.00	N/A	0.000	0.00
GMA3-4	994.60	4/16/2002	7.25		0.00	N/A	0.000	
GMA3-4	994.60	4/23/2002	7.35		0.00	N/A	0.000	
GMA3-6	997.49	2/4/2002	11.79		0.00	N/A	0.000	0.00
GMA3-6	997.49	4/25/2002	11.30		0.00	N/A	0.000	
OBG-2	992.24	1/7/2002	5.61		0.00	986.63	0.000	0.00
OBG-2	992.24	2/6/2002	5.54		0.00	986.70	0.000	

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

Well	Measuring Point	Date	Depth to	Depth to	LNAPL	Groundwater	LNAPL	Removal
Number	Elevation (ft)	Measured	Water (ft BMP)	LNAPL (ft BMP)	Thickness (ft)	Elevation (ft AMSL)	Daily (liters)	Total for Well (liters)
UB-MW-10	996.11	1/2/2002	10.73	~~~	0.00	985.38	0.000	0.00
UB-MW-10	996.11	1/8/2002	10.81		0.00	985.30	0.000	0.00
UB-MW-10	996.11	2/12/2002	10.81	10.80	0.01	985.31	0.000	
UB-MW-10	996.11	2/28/2002		14.05	1.49	<980.57	0.000	
UB-MW-10	996.11	3/11/2002	10.60	10.58	0.02	985.53	0.000	
UB-MW-10	996.11	3/25/2002	10.61		0.00	985.50	0.000	
UB-MW-10	996.11	4/30/2002	10.00		0.00	986.11	0.000	
UB-MW-10	996.11	5/22/2002	9.66		0.00	986.45	0.000	
UB-MW-10	995.99	6/26/2002	9.90		0.00	986.09	0.000	
UB-PZ-1	999.70	1/2/2002	DRY	40 40	0.00	<986.48	0.000	0.00
UB-PZ-1	999.70	1/7/2002	DRY		0.00	<986.48	0.000	
UB-PZ-1	999.70	2/12/2002	DRY		0.00	<986.48	0.000	
UB-PZ-1	999.70	3/25/2002	DRY		0.00	<986.48	0.000	
UB-PZ-1	999.70	5/22/2002	DRY		0.00	<986.48	0.000	
UB-PZ-1	999.70	6/26/2002	DRY		0.00	<986.48	0.000	
UB-PZ-1	999.70	4/30/2003	DRY		0.00	<986.48	0.000	
UB-PZ-2	994.77	1/2/2002	10.10		0.00	984.67	0.000	0.00
UB-PZ-2	994.77	1/7/2002	10.31		0.00	984.46	0.000	0.00
UB-PZ-2	994.77	2/12/2002	FROZEN @ 0.67				0.000	
UB-PZ-2	994.77	3/25/2002	9.81			984.96	0.000	
UB-PZ-2	994.77	5/22/2002	8.71	400 1004 1004	0.00	986.06	0.000	
UB-PZ-2	994.77	6/26/2002	9.51	****	0.00	985.26	0.000	
UB-PZ-2	994.77	4/30/2003	9.42	***	0.00	985.35	0.000	

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA LNAPL MONITORING AND RECOVERY DATA JANUARY - JUNE 2002

Well Number	Date Date		Depth to	Depth to	LNAPL	Groundwater	LNAPI	. Removal
	(ft)	Measured	Water (ft BMP)	LNAPL (ft BMP)	Thickness (ft)	Elevation (ft AMSL)	Daily (liters)	Total for Well (liters)
UB-PZ-3	998.15	1/2/2002	13.37	13.11	0.26	985.02		
UB-PZ-3	998.15	1/7/2002	DRY		0.00	I I	0.000	0.00
UB-PZ-3	998.15	2/12/2002	13.39	13.21		N/A	0.000	
UB-PZ-3	998.15	3/25/2002			0.18	984.93	0.000	
UB-PZ-3	998.15		13.41	13.40	0.01	984.75	0.000	
	1 1	4/30/2002	12.45	12.44	0.01	985.71	0.000	
UB-PZ-3	998.15	5/22/2002	12.31	12.10	0.21	986.04	0.000	
UB-PZ-3	998.15	6/26/2002	12.61	12.20	0.41	985.92	0.000	

Total amount of LNAPL Recovered - January through June 2002:

563.36 liters 148.83 gallons

NOTES

- 1. --- indicates LNAPL or DNAPL was not present in a measurable quantity
- 2. N/A indicates information not available.
- 3. N/M indicates data not measured.
- 4. N/R indicates information not recorded.
- 5. Several wells were repaired in February 2002, resulting in the development of new measuring point elevations after completion of those activities.

Appendix D

LNAPL Analytical Data



TABLE D-1

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA LNAPL ANALYTICAL RESULTS

(Results are presented in parts per million, unless otherwise noted)

Sample ID:	1	51-19-OIL-1	59-3R-OIL-1
Parameter Date Collected:	08/19/02	08/19/02	08/19/02
Volatile Organics			
1,1,1-Trichloroethane	ND(5.0)	ND(5.0)	ND(5.0)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(5.0)	ND(5.0)
1,1,2-Trichloroethane	ND(5.0)	ND(5.0)	ND(5.0)
1,1-Dichloroethane	ND(5.0)	ND(5.0)	ND(5.0)
1,1-Dichloroethene	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dichloroethane	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dichloroethene (total)	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dichloropropane	ND(5.0)	ND(5.0)	ND(5.0)
2-Butanone	ND(5.0)	ND(5.0)	ND(5.0)
2-Hexanone	ND(5.0)	ND(5.0)	ND(5.0)
4-Methyl-2-pentanone	ND(5.0)	ND(5.0)	ND(5.0)
Acetone	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(5.0)	ND(5.0)	ND(5.0)
Bromodichloromethane	ND(5.0)	ND(5.0)	ND(5.0)
Bromoform	ND(5.0)	ND(5.0)	ND(5.0)
Bromomethane	ND(5.0)	ND(5.0)	ND(5.0)
Carbon Disulfide	ND(5.0)	ND(5.0)	ND(5.0)
Carbon Tetrachloride	ND(5.0)	ND(5.0)	ND(5.0)
Chlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)
Chloroethane	ND(5.0)	ND(5.0)	ND(5.0)
Chloroform	ND(5.0)	ND(5.0)	ND(5.0)
Chloromethane	ND(5.0)	ND(5.0)	ND(5.0)
sis-1,3-Dichloropropene	ND(5.0)	ND(5.0)	ND(5.0)
Dibromochloromethane	ND(5.0)	ND(5.0)	ND(5.0)
Ethylbenzene	110	29	ND(5.0)
Methylene Chloride	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ND(5.0)	ND(5.0)	ND(5.0)
etrachloroethene	ND(5.0)	ND(5.0)	ND(5.0)
oluene	ND(5.0)	ND(5.0)	ND(5.0)
rans-1,3-Dichloropropene	ND(5.0)	ND(5.0)	ND(5.0)
richloroethene	ND(5.0)	ND(5.0)	ND(5.0)
'inyl Chloride	ND(5.0)	ND(5.0)	ND(5.0)
(ylenes (total)	67	87	ND(5.0)
CBs		~ /	1110(3.0)
roclor-1016	ND(1.0)	ND(7.6)	ND(7.6)
roclor-1221	ND(1.0)	ND(7.6)	ND(7.6)
roclor-1232	ND(1.0)	ND(7.6)	ND(7.6) ND(7.6)
roclor-1242	ND(1.0)	ND(7.6)	ND(7.6)
roclor-1248	ND(1.0)	ND(7.6)	ND(7.6) ND(7.6)
roclor-1254	9.8	ND(7.6)	ND(7.6) ND(7.6)
roclor-1260	16	100	
otal PCBs	25.8	100	76 76
	23.0	100	/0

TABLE D-1

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA LNAPL ANALYTICAL RESULTS

(Results are presented in parts per million, unless otherwise noted)

Sample ID:	51-15-OIL-1	51-19-OIL-1	59-3R-OIL-1
Parameter Date Collected:	08/19/02	08/19/02	08/19/02
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(220)	ND(110)	31 J
1,2-Dichlorobenzene	ND(220)	ND(110)	ND(110)
1,3-Dichlorobenzene	ND(220)	ND(110)	ND(110)
1,4-Dichlorobenzene	ND(220)	65 J	ND(110)
2,4,5-Trichlorophenol	ND(220)	ND(110)	ND(110)
2,4,6-Trichlorophenol	ND(220)	ND(110)	ND(110)
2,4-Dichlorophenol	ND(220)	ND(110)	ND(110)
2,4-Dimethylphenol	ND(220)	ND(110)	ND(110)
2,4-Dinitrophenol	ND(1100)	ND(550)	ND(570)
2,4-Dinitrotoluene	ND(220)	ND(110)	ND(110)
2,6-Dinitrotoluene	ND(220)	ND(110)	ND(110)
2-Chloronaphthalene	ND(220)	ND(110)	ND(110)
2-Chlorophenol	ND(220)	ND(110)	ND(110)
2-Methylnaphthalene	4400	750	ND(110)
2-Methylphenol	ND(220)	ND(110)	ND(110)
2-Nitroaniline	ND(1100)	ND(550)	ND(570)
2-Nitrophenol	ND(220)	ND(110)	ND(110)
3&4-Methylphenol	ND(220)	ND(110)	ND(110)
3,3'-Dichlorobenzidine	ND(440)	ND(220)	ND(230)
3-Nitroaniline	ND(1100)	ND(550)	ND(570)
4,6-Dinitro-2-methylphenol	ND(1100)	ND(550)	ND(570)
4-Bromophenyl-phenylether	ND(220)	ND(110)	ND(110)
4-Chloro-3-Methylphenol	ND(220)	ND(110)	ND(110)
4-Chloroaniline	ND(220)	ND(110)	ND(110)
4-Chlorophenyl-phenylether	ND(220)	ND(110)	ND(110)
4-Nitroaniline	ND(1100)	ND(550)	ND(570)
4-Nitrophenol	ND(1100)	ND(550)	ND(570)
Acenaphthene	860	ND(110)	ND(110)
Acenaphthylene	ND(220)	ND(110)	ND(110)
Anthracene	ND(220)	ND(110)	ND(110)
Benzo(a)anthracene	ND(220)	ND(110)	ND(110)
Benzo(a)pyrene	ND(220)	ND(110)	ND(110)
Benzo(b)fluoranthene	ND(220)	ND(110)	ND(110)
Benzo(g,h,i)perylene	ND(220)	ND(110)	ND(110)
Benzo(k)fluoranthene	ND(220)	ND(110)	ND(110)
Benzoic Acid	300	ND(110)	ND(110)
Benzyl Alcohol	ND(220)	ND(110)	ND(110)
ois(2-Chloroethoxy)methane	ND(220)	ND(110)	ND(110)
ois(2-Chloroethyl)ether	ND(220)	ND(110)	ND(110)
ois(2-Chloroisopropyl)ether	ND(220)	ND(110)	ND(110)
pis(2-Ethylhexyl)phthalate	ND(220)	ND(110)	ND(110)
Butylbenzylphthalate	ND(220)	ND(110)	ND(110)
Chrysene	ND(220)	ND(110)	ND(110)
Dibenzo(a,h)anthracene	ND(220)	ND(110)	ND(110)

TABLE D-1

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA LNAPL ANALYTICAL RESULTS

(Results are presented in parts per million, unless otherwise noted)

	Sample ID:	51-15-OIL-1	51-19-OIL-1	59-3R-OIL-1				
	ate Collected:	08/19/02	08/19/02	08/19/02				
Semivolatile Organics (continued)								
Dibenzofuran		ND(220)	ND(110)	ND(110)				
Diethylphthalate		ND(220)	ND(110)	ND(110)				
Dimethylphthalate		ND(220)	ND(110)	ND(110)				
Di-n-Butylphthalate		ND(220)	ND(110)	ND(110)				
Di-n-Octylphthalate		ND(220)	ND(110)	ND(110)				
Fluoranthene		ND(220)	ND(110)	ND(110)				
Fluorene		670	100 J	ND(110)				
Hexachlorobenzene		ND(220)	ND(110)	ND(110)				
Hexachlorobutadiene		ND(440)	ND(220)	ND(230)				
Hexachlorocyclopentadiene		ND(220)	ND(110)	ND(110)				
Hexachloroethane		ND(220)	ND(110)	ND(110)				
Indeno(1,2,3-cd)pyrene		ND(220)	ND(110)	ND(110)				
Isophorone		ND(220)	ND(110)	ND(110)				
Naphthalene		1900	330	ND(110)				
Nitrobenzene		ND(220)	ND(110)	ND(110)				
N-Nitroso-di-n-propylamin	e	ND(440)	ND(220)	ND(230)				
N-Nitrosodiphenylamine		ND(220)	ND(110)	ND(110)				
Pentachlorophenol		ND(1100)	ND(550)	ND(570)				
Phenanthrene		1500	240	ND(110)				
Phenol		ND(220)	ND(110)	ND(110)				
Рутепе		370	57 J	ND(110)				
Physical Parameters				· · · · · · · · · · · · · · · · · · ·				
Interfacial Tension (mN/m)		289.00	272.00	260.70				
Kinematic Viscosity @100	C (mm ² /s)	2.338	2.669	3.018				
Specific Gravity @60/60 °F	(unitless)	0.9583	0.8957	0.8974				

Notes:

- 1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs, volatiles, semivolatiles, Interfacial Tension, Kinematic Viscosity, and Specific Gravity.
- 2. ND Analyte was not detected. The number in parentheses is the associated detection limit.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles,)

J - Indicates an estimated value less than the practical quantitation limit (PQL)

Appendix E

Groundwater Analytical Results



GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample ID:	002A	6B	16A	16B-R	16C
Parameter Date Collected:	04/23/02	04/25/02	04/26/02	04/26/02	04/25/02
Volatile Organics					
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) J [ND(0.0050) J]	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,1-Dichloroethene	ND(0.0050)	ND(0.0010)	ND(0.010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,2-Dibromoethane	ND(0.0050)	ND(0.0010)	ND(0.010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,4-Dioxane	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J [ND(0.20) J]	ND(0.20) J
2-Butanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050) J	ND(0.0050) J	ND(0.010) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
2-Hexanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Acetone	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J
Acetonitrile	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J
Acrolein	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J
Acrylonitrile	ND(0.0050) J	ND(0.0050) J	ND(0.010) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Benzene	4.4	0.20	7.5	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Bromomethane	ND(0.0050)	ND(0.0020)	ND(0.010)	ND(0.0020) [ND(0.0020)]	ND(0.0020)
Carbon Disulfide	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Chlorobenzene	8.2	0.082	16	ND(0.0050) [ND(0.0050)]	0.0027 J
Chloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Ethylbenzene	ND(0.0050)	ND(0.0050)	0.0054 J	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Iodomethane Isobutanol	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Methacrylonitrile	ND(0.10) J	ND(0.10) J	ND(0.20) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J
	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Methyl Methacrylate Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Propionitrile	0.0082	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
	ND(0.010) J	ND(0.010) J	ND(0.020) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J
Styrene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Tetrachloroethene Toluene	ND(0.0050)	ND(0.0020)	ND(0.010) J	ND(0.0020) [ND(0.0020)]	ND(0.0020)
rans-1,2-Dichloroethene	0.16 ND(0.0050)	ND(0.0050)	0.35	ND(0.0050) [ND(0.0050)]	ND(0.0050)
	ND(0.0050) ND(0.0050)	ND(0.0050)	0.014	ND(0.0050) [ND(0.0050)]	ND(0.0050)
rans-1,3-Dichloropropene rans-1,4-Dichloro-2-butene		ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Trichloroethene Trichlorofluoromethane	0.47 ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Vinyl Acetate		ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
	ND(0.0050)	ND(0.0050)	ND(0.010) J	ND(0.0050) [ND(0.0050)]	ND(0.0050)
/inyl Chloride	ND(0.0050)	ND(0.0020)	0.16	ND(0.0020) [ND(0.0020)]	ND(0.0020)
Cylenes (total) Total VOCs	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Otal YOUS	13	0.28	24	ND(0.20) [ND(0.20)]	0.0027 J

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample ID: Parameter Date Collected:	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02	16C 04/25/02
PCBs-Unfiltered	·			V-11-01-02	04/25/02
Aroclor-1016	NS	ND(0.000065)	NS	NS	NS
Aroclor-1221	NS	ND(0.000065)	NS NS	NS NS	NS NS
Aroclor-1232	NS NS	ND(0.000065)	NS NS	NS NS	
Aroclor-1242	NS NS	ND(0.000065)	NS NS	NS NS	NS
Aroclor-1248	NS	ND(0.000065)	NS NS	NS NS	NS
Aroclor-1254	NS NS	ND(0.000065)			NS
Aroclor-1260	. NS	ND(0.000065)	NS NS	NS NS	NS
Total PCBs	NS NS		NS NS	NS NS	NS
PCBs-Filtered	IND	ND(0.000065)	1 1/15	NS	NS
Aroclor-1016) IG) TD (0.0000(6)			·, · · · · · · · · · · · · · · · · · ·
Aroclor-1016 Aroclor-1221	NS NS	ND(0.000065)	NS	NS	NS
	NS	ND(0.000065)	NS	NS	NS
Aroclor-1232	NS	ND(0.000065)	NS	NS	NS
Aroclor-1242	NS	ND(0.000065)	NS	NS	NS
Aroclor-1248	NS	ND(0.000065)	NS	NS	NS
Aroclor-1254	NS	ND(0.000065)	NS	NS	NS
Aroclor-1260	NS	ND(0.000065)	NS	NS	NS
Total PCBs	NS	ND(0.000065)	NS	NS	NS
Semivolatile Organics					
,2,4,5-Tetrachlorobenzene	NS	ND(0.010)	NS	NS	NS
,2,4-Trichlorobenzene	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
,2-Dichlorobenzene	0.016	ND(0.010)	0.084	ND(0.0050) [ND(0.0050)]	ND(0.0050)
,2-Diphenylhydrazine	NS	ND(0.010)	NS	NS	NS
,3,5-Trinitrobenzene	NS	ND(0.010) J	NS	NS	NS
,3-Dichlorobenzene	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
,3-Dinitrobenzene	NS	ND(0.010) J	NS	NS	NS NS
,4-Dichlorobenzene	0.024	ND(0.010)	0.16	ND(0.0050) [ND(0.0050)]	ND(0.0050)
,4-Naphthoquinone	NS	ND(0.010)	NS	NS	NS
-Naphthylamine	NS	ND(0.010)	NS	NS NS	NS
,3,4,6-Tetrachlorophenol	NS	ND(0.010)	NS	NS NS	NS NS
,4,5-Trichlorophenol	NS	ND(0.010)	NS NS	NS NS	NS NS
,4,6-Trichlorophenol	NS NS	ND(0.010)	NS NS	NS NS	NS NS
,4-Dichlorophenol	NS NS	ND(0.010)	NS NS		
,4-Dimethylphenol	NS NS	ND(0.010)	NS NS	NS NS	NS
,4-Dinitrophenol	NS NS	ND(0.050)	NS NS		NS
4-Dinitrotoluene	NS NS	ND(0.010)	NS NS	NS NS	NS
,6-Dichlorophenol	NS NS	ND(0.010)		NS	NS
6-Dinitrotoluene	NS NS		NS	NS NS	NS
-Acetylaminofluorene	NS NS	ND(0.010) J	NS	NS	NS
· · · · · · · · · · · · · · · · · · ·		ND(0.010)	NS NS	NS	NS
Chloronaphthalene Chlorophenol	NS NS	ND(0.010)	NS	NS	NS
	NS NS	ND(0.010)	NS	NS	NS
Methylnaphthalene	NS NS	ND(0.010)	NS	NS	NS
Methylphenol	NS NS	ND(0.010)	NS	NS	NS
Naphthylamine	NS NS	ND(0.010)	NS	NS	NS
Nitroaniline	NS	ND(0.050)	NS	NS	NS
Nitrophenol	NS	ND(0.010)	NS	NS	NS
Picoline	NS	ND(0.010)	NS	NS	NS
&4-Methylphenol	NS	ND(0.010)	NS	NS	NS
3'-Dichlorobenzidine	NS	ND(0.020)	NS	NS	NS
3'-Dimethylbenzidine	NS	ND(0.010)	NS	NS	NS
Methylcholanthrene	NS	ND(0.010)	NS	NS	NS
Nitroaniline	NS	ND(0.050)	NS	NS	NS
6-Dinitro-2-methylphenol	NS	ND(0.050)	NS	NS	NS
Aminobiphenyl	NS	ND(0.010)	NS	NS	NS
Bromophenyl-phenylether	NS	ND(0.010)	NS	NS	NS
Chloro-3-Methylphenol	NS	ND(0.010)	NS	NS	NS
Chloroaniline	NS	ND(0.010)	NS	NS NS	NS
Chlorobenzilate	NS	ND(0.010)	NS	NS NS	NS NS
Chlorophenyl-phenylether	NS	ND(0.010)	NS NS	NS NS	NS NS
Nitroaniline	NS	ND(0.050)	NS	NS NS	NS NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample ID: Parameter Date Collected:	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02	16C 04/25/02
Semivolatile Organics (continued)					
4-Nitrophenol	NS	ND(0.050)	NS	NS	l NS
4-Nitroquinoline-1-oxide	NS	ND(0.010)	NS	NS	NS
4-Phenylenediamine	NS	ND(0.010) J	NS	NS	NS
5-Nitro-o-toluidine	NS	ND(0.010)	NS	NS	NS
7,12-Dimethylbenz(a)anthracene	NS	ND(0.010) J	NS	NS	NS
a,a'-Dimethylphenethylamine	NS	ND(0.010)	NS	NS	NS
Acenaphthene	NS	ND(0.010)	NS	NS	NS
Acenaphthylene	NS	ND(0.010)	NS	NS	NS
Acetophenone	NS	ND(0.010)	NS	NS	NS
Aniline	NS	ND(0.010)	NS	NS	NS
Anthracene	NS	ND(0.010)	NS	NS	NS
Aramite	NS	ND(0.010) J	NS	NS	NS
Benzidine	NS	ND(0.020) J	NS	NS	NS
Benzo(a)anthracene	NS	ND(0.010)	NS NS	NS	NS
Benzo(a)pyrene	NS	ND(0.010)	NS	NS	NS
Benzo(b) fluoranthene	NS NE	ND(0.010)	NS NG	NS	NS
Benzo(g,h,i)perylene Benzo(k)fluoranthene	NS NS	ND(0.010)	NS NS	NS NS	NS
Benzyl Alcohol	NS NS	ND(0.010)	NS NS	NS NG	NS
bis(2-Chloroethoxy)methane	NS NS	ND(0.020) ND(0.010)	NS NS	NS NS	NS NE
bis(2-Chloroethyl)ether	NS NS	ND(0.010) ND(0.010)	NS NS	NS NS	NS
bis(2-Chloroisopropyl)ether	NS NS	ND(0.010)	NS NS	NS NS	NS NS
bis(2-Ethylhexyl)phthalate	NS NS	ND(0.0060)	NS	NS NS	NS NS
Butylbenzylphthalate	NS	ND(0.010)	NS	NS NS	NS NS
Chrysene	NS	ND(0.010)	NS NS	NS NS	NS NS
Diallate	NS	ND(0.010)	NS	NS NS	NS NS
Dibenzo(a,h)anthracene	NS	ND(0.010)	NS NS	NS NS	NS NS
Dibenzofuran	NS	ND(0.010)	NS	NS NS	NS NS
Diethylphthalate	NS	ND(0.010)	NS	NS NS	NS NS
Dimethoate	NS	ND(0.050)	NS	NS NS	NS
Dimethylphthalate	NS	ND(0.010)	NS	NS	NS NS
Di-n-Butylphthalate	NS	ND(0.010)	NS	NS	NS
Di-n-Octylphthalate	NS	ND(0.010)	NS	NS	NS
Diphenylamine	NS	ND(0.010)	NS	NS	NS
Disulfoton	NS	ND(0.010)	NS	NS	NS
Ethyl Methanesulfonate	NS	ND(0.010)	NS	NS	NS
Ethyl Parathion	NS	ND(0.010)	NS	NS	NS
Famphur	NS	ND(0.050)	NS	NS	NS
Fluoranthene	NS	ND(0.010)	NS	NS	NS
Fluorene	NS	ND(0.010)	NS	NS	NS
Hexachlorobenzene	NS	ND(0.010)	NS	NS	NS
Hexachlorobutadiene	NS NS	ND(0.0010)	NS	NS	NS
Hexachlorocyclopentadiene	NS NS	ND(0.010)	NS NS	NS	NS
Hexachloroethane Hexachlorophene	NS NS	ND(0.010)	NS NS	NS	NS
	NS NE	ND(0.020)	NS NS	NS	NS
Hexachloropropene	NS NS	ND(0.010) J	NS NS	NS NO	NS
ndeno(1,2,3-cd)pyrene sodrin	NS NS	ND(0.010) ND(0.010)	NS NS	NS NS	NS NS
sophorone	NS NS		NS NS	NS NG	NS NS
sosafrole	NS NS	ND(0.010) ND(0.010)	NS NS	NS NS	NS NS
Kepone Capone	NS NS	ND(0.010) ND(0.050)	NS NS	NS NS	NS NS
Methapyrilene	NS NS	ND(0.030)	NS NS	NS NS	NS NC
Methyl Methanesulfonate	NS NS	ND(0.010)	NS NS	NS NS	NS NS
Methyl Parathion	NS NS	ND(0.010)	NS NS	NS NS	NS NS
Naphthalene	0.0072	ND(0.010)	0.060 J	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Vitrobenzene	NS	ND(0.010)	NS	NS	ND(0.0050) NS
N-Nitrosodiethylamine	NS	ND(0.010)	NS NS	NS NS	NS NS
V-Nitrosodimethylamine	NS	ND(0.010)	NS NS	NS NS	NS NS
V-Nitroso-di-n-butylamine	NS	ND(0.010)	NS NS	NS NS	NS NS
I-Nitroso-di-n-propylamine	NS	ND(0.010)	NS NS	NS NS	NS NS
V-Nitrosodiphenylamine	NS	ND(0.010)	NS NS	NS NS	NS NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample ID: Parameter Date Collected:	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02	16C 04/25/02
Semivolatile Organics (continued)			!		
N-Nitrosomethylethylamine	NS	ND(0.010)	NS	NS	NS
N-Nitrosomorpholine	NS	ND(0.010)	NS	NS	NS
N-Nitrosopiperidine	NS	ND(0.010)	NS	NS	NS
N-Nitrosopyrrolidine	NS	ND(0.010)	NS	NS	NS
o,o,o-Triethylphosphorothioate	NS	ND(0.010)	NS	NS	NS
o-Toluidine	NS	ND(0.010)	NS	NS	NS
p-Dimethylaminoazobenzene	NS	ND(0.010)	NS	NS	NS
Pentachlorobenzene	NS	ND(0.010)	NS	NS	NS
Pentachloroethane Pentachloronitrobenzene	NS NS	ND(0.010)	NS NS	NS	NS NS
Pentachlorophenol	NS NS	ND(0.010) J	NS NS	NS NS	NS NS
Phenacetin	NS NS	ND(0.050) ND(0.010)	NS NS	NS NS	NS NS
Phenanthrene	NS NS	ND(0.010)	NS NS	NS NS	NS NS
Phenol	NS	ND(0.010)	NS NS	NS NS	NS NS
Phorate	NS	ND(0.010)	NS NS	NS NS	NS NS
Pronamide	NS	ND(0.010)	NS NS	NS NS	NS NS
Ругепе	NS	ND(0.010)	NS	NS NS	NS
Pyridine	NS	ND(0.010)	NS	NS NS	NS
Safrole	NS	ND(0.010)	NS	NS	NS
Sulfotep	NS	ND(0.010)	NS	NS	NS
Thionazin	NS	ND(0.010)	NS	NS	NS
Organochlorine Pesticides					
4,4'-DDD	NS	ND(0.00010)	NS	NS	NS
4,4'-DDE	NS	ND(0.00010)	NS	NS	NS
4,4'-DDT	NS	ND(0.00010)	NS	NS	NS
Aldrin	NS	ND(0.000050)	NS	NS	NS
Alpha-BHC	NS	ND(0.000050)	NS	NS	NS
Alpha-Chlordane	NS	ND(0.000050)	NS	NS	NS
Beta-BHC Delta-BHC	NS NS	ND(0.000050)	NS	NS	NS
Dieldrin	NS NS	ND(0.000050)	NS NS	NS	NS
Endosulfan I	NS NS	ND(0.00010)	NS NS	NS NG	NS
Endosulfan II	NS NS	ND(0.00010) ND(0.00010)	NS NS	NS NS	NS NS
Endosulfan Sulfate	NS	ND(0.00010)	NS	NS NS	NS NS
Endrin	NS	ND(0.00010)	NS	NS NS	NS NS
Endrin Aldehyde	NS	ND(0.00010)	NS	NS	NS
Endrin Ketone	NS	ND(0.00010)	NS	NS	NS
Gamma-BHC (Lindane)	NS	ND(0.000050)	NS	NS	NS
Gamma-Chlordane	NS	ND(0.000050)	NS	NS	NS
Heptachlor	NS	ND(0.000050)	NS	NS	NS
Heptachlor Epoxide	NS	ND(0.000050)	NS	NS	NS
Methoxychlor	NS	ND(0.00050)	NS	NS	NS
Technical Chlordane	NS	ND(0.00050)	NS	NS	NS
Toxaphene Herbicides	NS	ND(0.0010)	NS	NS	NS
2,4,5-T	NIC	ND(0.0020)	No. 1	210	
2,4,5-1 2,4,5-TP	NS NS	ND(0.0020) ND(0.0020)	NS No	NS NS	NS NS
2,4,5-1F 2,4-D	NS NS	ND(0.0020) ND(0.010)	NS NS	NS NS	NS NS
Dinoseb	NS NS	ND(0.010)	NS NS	NS NS	NS NS
Furans		1.2(0.0010)	110	410	1 149
2,3,7,8-TCDF	NS	ND(0.000000035) X	NS I	NS	NS NS
CCDFs (total)	NS NS	ND(0.000000033) X	NS NS	NS NS	NS NS
,2,3,7,8-PeCDF	NS	0.000000014 J	NS NS	NS NS	NS NS
2,3,4,7,8-PeCDF	NS	0.000000011 J	NS	NS NS	NS NS
PeCDFs (total)	NS	0.000000026	NS	NS	NS
,2,3,4,7,8-HxCDF	NS	0.000000011 J	NS	NS	NS
,2,3,6,7,8-HxCDF	NS	0.0000000099 J	NS	NS	NS
,2,3,7,8,9-HxCDF	NS	0.000000010 J	NS	NS	NS
,3,4,6,7,8-HxCDF	NS	0.000000091 J	NS	NS	NS
IxCDFs (total)	NS	0.000000040	NS	NS	NS
,2,3,4,6,7,8-HpCDF	NS	0.000000078 J	NS	NS	NS
,2,3,4,7,8,9-HpCDF	NS	ND(0.0000000070) X	NS	NS	NS
IpCDFs (total)	NS NS	0.0000000078	NS NS	NS	NS
OCDF	NS	0.00000013 J	NS	NS	NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample ID: Parameter Date Collected:	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02	16C 04/25/02
2,3,7,8-TCDD	NS	ND(0.0000000042) X	NS	NS	NS
TCDDs (total)	NS	ND(0.000000033)	NS	NS	NS
1,2,3,7,8-PeCDD	NS	0.00000013 J	NS	NS	NS
PeCDDs (total)	NS	0.00000013	NS	NS	NS
1,2,3,4,7,8-HxCDD	NS	ND(0.000000094) X	NS	NS	NS
1,2,3,6,7,8-HxCDD	NS	0.000000093 J	NS	NS	NS
1,2,3,7,8,9-HxCDD	NS	0.000000092 J	NS	NS	NS
HxCDDs (total)	, NS	0.00000018	NS	NS	NS
1,2,3,4,6,7,8-HpCDD	NS	0.000000095 J	NS	NS	NS
HpCDDs (total)	NS	0.000000095	NS	NS	NS
OCDD	NS	0.00000019 J	NS	NS	NS
Total TEQ (WHO TEFs)	NS	0.00000028	NS	NS	NS
Inorganics-Unfiltered					
Antimony	NS	ND(0.0600)	NS	NS	NS
Arsenic	NS	ND(0.0100)	NS	NS	NS
Barium	NS	ND(0.200)	NS	NS	NS
Beryllium	NS	ND(0.00100)	NS	NS	NS
Cadmium	NS	ND(0.00500)	NS	NS	NS
Chromium	NS	ND(0.0100)	NS	NS	NS
Cobalt	NS	ND(0.0500)	NS	NS	NS
Copper	NS	ND(0.0250)	NS	NS	NS
Cyanide	NS	0.00350 B	NS	NS	NS
Lead	NS	ND(0.00300)	NS	NS	NS
Mercury	NS	ND(0.000200)	NS	NS	NS
Nickel	NS NS	ND(0.0400)	NS	NS	NS NS
Selenium	NS NS	ND(0.00500)	NS NS	NS	NS NS
Silver	NS NS	ND(0.00500)	NS NS	NS	NS NS
Sulfide	NS NS	ND(5.00)	NS NS	NS NS	NS NS
Thallium	NS NS	ND(0.0100) J	NS NG	NS NS	NS NS
Tin Vanadium	NS NS	ND(0.0300) ND(0.0500)	NS NS	NS NS	NS NS
Zinc	NS NS	ND(0.0300) ND(0.0200) J	NS NS	NS NS	NS NS
Inorganics-Filtered	142	ND(0.0200) 3	149	1 103	1 113
Antimony	NS	ND(0.0600)	NS	NS	NS
Arsenic	NS NS	ND(0.100)	NS NS	NS NS	NS NS
Barium	NS NS	ND(0.200)	NS NS	NS NS	NS NS
Beryllium	NS	ND(0.00100)	NS NS	NS NS	NS NS
Cadmium	NS	ND(0.0100)	NS NS	NS	NS NS
Chromium	NS	ND(0.0250)	NS	NS	NS
Cobalt	NS	ND(0.0500)	NS	NS NS	NS
Copper	NS	ND(0.100)	NS	NS	NS
Lead	NS	ND(0.00300)	NS	NS	NS
Mercury	NS	ND(0.000200)	NS	NS	NS
Nickel	NS	ND(0.0400)	NS	NS	NS
Selenium	NS	ND(0.00500)	NS	NS	NS
Silver	NS	ND(0.00500)	NS	NS	NS
Thallium	NS	ND(0.0100) J	NS	NS	NS
Tin	NS	ND(0.0300)	NS	NS	NS
Vanadium	NS	ND(0.0500)	NS	NS	NS
Zinc	NS	ND(0.0200) J	NS	NS	NS
Natural Attenuation Parameters					
Alkalinity (Total)	140	NS	490	480 [480]	160
Chloride	40	NS	1700	290 [280]	4.0
Dissolved Organic Carbon	11.0	NS	59.0	11.0 [15.0]	8.70
Ethane	0.017	NS	ND(0.050)	ND(0.10) [ND(0.20)]	ND(0.50)
Ethene	0.30	NS	0.15	ND(0.10) [ND(0.20)]	ND(0.50)
Dissolved Iron	ND(0.0500)	NS	1.30	0.360 [ND(0.0500)]	ND(0.0500)
Methane	0.0450	NS	1.40	2.70 [2.70]	12.0
Nitrate Nitrogen	0.0490 B	NS	0.0140 B	0.0270 B [0.0320 B]	0.150
Nitrite Nitrogen	0.00300 B	NS	ND(0.0500)	0.00360 B [0.00340 B]	ND(0.0500)
Sulfate (turbidimetric)	30.0	NS	5.30	15.0 [16.0]	3.60

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample ID: Parameter Date Collected:	16E 04/25/02	39D 04/23/02	43A 04/26/02	43B 04/26/02	51-14 04/23/02	54B 04/29/02
Volatile Organics		·	<u> </u>	<u> </u>	<u></u>	
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050) J	ND(0.0050) J	ND(0.0050)	ND(0.0050)
1.1.1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J
2-Butanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
2-Hexanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Acetonitrile	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrolein	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrylonitrile	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Benzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0030)
Carbon Disulfide	ND(0.0050)	ND(0.0020)	ND(0.0050)	ND(0.0020)	ND(0.0050)	ND(0.0020)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0050)	0.0063	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0034 J	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
odomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
sobutanol	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Methacrylonitrile	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Styrene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0030)
Toluene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
rans-1,2-Dichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
rans-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
rans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
richloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
richlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
/inyl Acetate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
/inyl Chloride	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	0.011
(ylenes (total)	ND(0.0020)	ND(0.0020) ND(0.010)	ND(0.0020)	ND(0.0020)	ND(0.010)	ND(0.010)
Total VOCs	ND(0.010) ND(0.20)	0.0063	ND(0.20)	ND(0.20)	0.0034 J	0.011

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample ID:	16E	39D	43A	43B	51-14	54B
Parameter Date Collected:	04/25/02	04/23/02	04/26/02	04/26/02	04/23/02	04/29/02
PCBs-Unfiltered						
Aroclor-1016	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1221	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1232	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1242	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1248	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1254	NS	NS	NS	NS	NS	0.000078
Aroclor-1260	NS	NS	NS	NS	NS	ND(0.000065)
Total PCBs	NS	NS	NS	NS	NS	0.000078
PCBs-Filtered						
Aroclor-1016	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1221	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1232	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1242	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1248	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1254	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1260	NS	NS	NS	NS	NS	ND(0.000065)
Total PCBs	NS	NS	NS	NS	NS	ND(0.000065)
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	NS	NS	ND(0.010)
1,2,4-Trichlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
1,2-Dichlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
1,2-Diphenylhydrazine	NS	NS	NS	NS	NS	ND(0.010)
1,3,5-Trinitrobenzene	NS	NS	NS	NS	NS	ND(0.010)
1,3-Dichlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
1,3-Dinitrobenzene	NS	NS	NS	NS	NS	ND(0.010)
1,4-Dichlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
1,4-Naphthoquinone	NS	NS	NS	NS	NS	ND(0.010)
1-Naphthylamine	NS	NS	NS	NS	NS	ND(0.010)
2,3,4,6-Tetrachlorophenol	NS	NS	NS	NS	NS	ND(0.010) J
2,4,5-Trichlorophenol	NS	NS	NS	NS	NS	ND(0.010)
2,4,6-Trichlorophenol	NS	NS	NS	NS	NS	ND(0.010)
2,4-Dichlorophenol	NS	NS	NS	NS	NS	ND(0.010)
2,4-Dimethylphenol	NS	NS	NS	NS	NS	ND(0.010)
2,4-Dinitrophenol	NS	NS	NS	NS	NS	ND(0.050)
2,4-Dinitrotoluene	NS	NS	NS	NS	NS	ND(0.010)
2,6-Dichlorophenol	NS	NS	NS	NS	NS	ND(0.010)
2,6-Dinitrotoluene	NS	NS	NS	NS	NS	ND(0.010) J
2-Acetylaminofluorene	NS	NS	NS	NS	NS	ND(0.010)
2-Chloronaphthalene	NS	NS	NS	NS	NS	ND(0.010)
2-Chlorophenol	NS	NS	NS	NS	NS	ND(0.010)
2-Methylnaphthalene	NS	NS	NS	NS	NS	ND(0.010)
2-Methylphenol	NS	NS	NS	NS	NS	ND(0.010)
2-Naphthylamine	NS	NS	NS	NS NS	NS	ND(0.010)
2-Nitroaniline	NS	NS	NS	NS	NS	ND(0.050) J
2-Nitrophenol	NS NS	NS	NS	NS	NS	ND(0.010)
2-Picoline	NS NS	NS NS	NS	NS	NS	ND(0.010)
3&4-Methylphenol	NS	NS	NS	NS	NS	ND(0.010)
3,3'-Dichlorobenzidine	NS NS	NS NS	NS	NS	NS	ND(0.020)
3,3'-Dimethylbenzidine	NS NS	NS NS	NS	NS	NS	ND(0.010)
3-Methylcholanthrene	NS	NS	NS	NS	NS	ND(0.010)
3-Nitroaniline	NS	NS	NS	NS	NS	ND(0.050)
,6-Dinitro-2-methylphenol	NS	NS NS	NS	NS	NS	ND(0.050)
-Aminobiphenyl	NS	NS	NS	NS	NS	ND(0.010)
-Bromophenyl-phenylether	NS	NS	NS	NS	NS	ND(0.010)
-Chloro-3-Methylphenol	NS	NS	NS	NS	NS	ND(0.010)
-Chloroaniline	NS	NS	NS	NS	NS	ND(0.010)
-Chlorobenzilate	NS	NS	NS	NS	NS	ND(0.010) J
-Chlorophenyl-phenylether	NS NS	NS NS	NS	NS	NS	ND(0.010)
-Nitroaniline	NS	NS	NS	NS	NS	ND(0.050)

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Parameter Semivolatile Organic 4-Nitrophenol 4-Nitroquinoline-1-oxi 4-Phenylenediamine 5-Nitro-o-toluidine 7,12-Dimethylbenz(a)a a,a'-Dimethylphenethyl Acenaphthene Acenaphthylene Acetophenone Aniline Anthracene Aramite Benzidine Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b,hi)perylene Benzo(b,hi)perylene Benzo(b,hi)cranthene Benzyl Alcohol bis(2-Chloroethyy)me bis(2-Chloroethyl)ethe bis(2-Chloroisopropyl)	ide anthracene	04/25/02 NS	04/23/02 NS	NS NS NS NS NS NS NS NS	NS NS NS NS NS NS NS NS	NS N	04/29/02 ND(0.050) ND(0.010) ND(0.010) J ND(0.010) ND(0.010) ND(0.010) J ND(0.010)
4-Nitrophenol 4-Nitroquinoline-1-oxi 4-Phenylenediamine 5-Nitro-o-toluidine 7,12-Dimethylbenz(a)a,a'-Dimethylbenz(a)a Acenaphthene Acenaphthylene Acetophenone Aniline Anthracene Aramite Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	ide anthracene	NS N	NS N	NS N	NS NS NS NS NS NS NS NS NS	NS N	ND(0.010) ND(0.010) J ND(0.010) ND(0.010) ND(0.010) J ND(0.010) ND(0.010) ND(0.010) ND(0.010) ND(0.010)
4-Nitroquinoline-1-oxi 4-Phenylenediamine 5-Nitro-o-toluidine 7,12-Dimethylbenz(a)a,a,a'-Dimethylphenethy Acenaphthene Acenaphthylene Anthracene Anthracene Aramite Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	anthracene	NS N	NS N	NS N	NS NS NS NS NS NS NS NS NS	NS N	ND(0.010) ND(0.010) J ND(0.010) ND(0.010) ND(0.010) J ND(0.010) ND(0.010) ND(0.010) ND(0.010) ND(0.010)
4-Phenylenediamine 5-Nitro-o-toluidine 7,12-Dimethylbenz(a)a,a'-Dimethylphenethy Acenaphthene Acenaphthylene Anthracene Anthracene Aramite Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	anthracene	NS N	NS N	NS N	NS NS NS NS NS NS NS NS	NS	ND(0.010) J ND(0.010) ND(0.010) ND(0.010) ND(0.010) J ND(0.010) ND(0.010) ND(0.010) ND(0.010) ND(0.010) ND(0.010)
5-Nitro-o-toluidine 7,12-Dimethylbenz(a)a a,a'-Dimethylphenethy Acenaphthene Acenaphthylene Acetophenone Aniline Anthracene Aramite Benzidine Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(c)anthene		NS N	NS N	NS	NS NS NS NS NS NS NS NS	NS NS NS NS NS NS NS	ND(0.010) ND(0.010) ND(0.010) J ND(0.010) ND(0.010) ND(0.010) ND(0.010) ND(0.010) ND(0.010)
7,12-Dimethylbenz(a)a a,a'-Dimethylphenethy Acenaphthene Acenaphthylene Acetophenone Aniline Aniline Anthracene Aramite Benzidine Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(c)anthene		NS N	NS N	NS NS NS NS NS NS NS NS	NS NS NS NS NS NS NS	NS NS NS NS NS NS NS NS NS	ND(0.010) ND(0.010) J ND(0.010) ND(0.010) ND(0.010) ND(0.010) ND(0.010)
a,a'-Dimethylphenethy Acenaphthene Acenaphthylene Acetophenone Aniline Anthracene Aramite Benzzidine Benzzo(a)anthracene Benzzo(b)fluoranthene Benzzo(k)fluoranthene Benzzo(k)fluoranthene Benzzo(k)fluoranthene Benzzo(k)fluoranthene Benzzo(k)fluoranthene Benzzo(k)fluoranthene Benzzo(k)fluoranthene Benzzo(k)fluoranthene		NS NS NS NS NS NS NS NS NS	NS N	NS	NS NS NS NS NS NS	NS NS NS NS NS NS	ND(0.010) J ND(0.010) ND(0.010) ND(0.010) ND(0.010) ND(0.010)
Acenaphthene Acenaphthylene Acetophenone Aniline Anthracene Aramite Benzidine Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(l) Chloroethoxy)me bis(2-Chloroethyl)ethe		NS NS NS NS NS NS NS	NS NS NS NS NS NS NS	NS NS NS NS NS NS NS	NS NS NS NS	NS NS NS NS	ND(0.010) ND(0.010) ND(0.010) ND(0.010) ND(0.010)
Acetophenone Aniline Anthracene Aramite Benzidine Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene		NS NS NS NS NS NS NS NS NS	NS NS NS NS NS NS NS NS	NS NS NS NS	NS NS NS	NS NS NS	ND(0.010) ND(0.010) ND(0.010) ND(0.010)
Aniline Anthracene Aramite Benzidine Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene		NS NS NS NS NS NS	NS NS NS NS NS	NS NS NS NS	NS NS	NS NS	ND(0.010) ND(0.010)
Anthracene Aramite Benzidine Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzol Alcohol bis(2-Chloroethoxy)me bis(2-Chloroethyl)ethe		NS NS NS NS	NS NS NS NS	NS NS NS	NS	NS	ND(0.010)
Aramite Benzidine Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene		NS NS NS NS	NS NS NS	NS NS			
Benzidine Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzyl Alcohol bis(2-Chloroethoxy)me bis(2-Chloroethyl)ethe		NS NS NS	NS NS	NS	NS	NS	ND(0.010)
Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzyl Alcohol bis(2-Chloroethoxy)me bis(2-Chloroethyl)ethe		NS NS	NS			1 10	145(0.010)
Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzyl Alcohol bis(2-Chloroethoxy)me bis(2-Chloroethyl)ethe		NS			NS	NS	ND(0.020)
Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzyl Alcohol bis(2-Chloroethoxy)me bis(2-Chloroethyl)ethe			NC	NS	NS	NS	ND(0.010)
Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzyl Alcohol bis(2-Chloroethoxy)me bis(2-Chloroethyl)ethe		NS		NS	NS	NS	ND(0.010)
Benzo(k)fluoranthene Benzyl Alcohol bis(2-Chloroethoxy)me bis(2-Chloroethyl)ethe			NS	NS	NS	NS	ND(0.010)
Benzyl Alcohol bis(2-Chloroethoxy)me bis(2-Chloroethyl)ethe		NS	NS	NS	NS	NS	ND(0.010)
bis(2-Chloroethoxy)me bis(2-Chloroethyl)ethe		NS	NS	NS	NS	NS	ND(0.010)
bis(2-Chloroethyl)ethe		NS	NS	NS	NS	NS	ND(0.020)
		NS	NS	NS	NS	NS	ND(0.010)
his /_ ('h hroisonroniil)		NS	NS	NS NS	NS	NS	ND(0.010)
		NS NS	NS	NS	NS	NS NS	ND(0.010)
bis(2-Ethylhexyl)phtha	llate	NS NS	NS	NS NS	NS	NS	ND(0.0060)
Butylbenzylphthalate		NS NS	NS	NS	NS	NS NS	ND(0.010)
Chrysene Diallate		NS NS	NS NS	NS	NS NS	NS NS	ND(0.010)
Dianate Dibenzo(a.h)anthracen		NS NS		NS NE	NS NS	NS NS	ND(0.010)
Dibenzo(a,n)anthracen Dibenzofuran	e .	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.010) ND(0.010)
Diethylphthalate		NS NS	NS NS	NS NS	NS	NS NS	ND(0.010) ND(0.010)
Dimethoate		NS	NS NS	NS NS	NS	NS NS	ND(0.050)
Dimethylphthalate		NS	NS NS	NS	NS NS	NS NS	ND(0.010)
Di-n-Butylphthalate		NS	NS NS	NS	NS	NS NS	ND(0.010)
Di-n-Octylphthalate		NS	NS NS	NS	NS	NS	ND(0.010)
Diphenylamine		NS	NS	NS	NS	NS NS	ND(0.010) J
Disulfoton		NS	NS	NS	NS	NS	ND(0.010)
Ethyl Methanesulfonat	e	NS	NS	NS	NS	NS	ND(0.010)
Ethyl Parathion		NS	NS	NS	NS	NS	ND(0.010)
Famphur		NS	NS	NS	NS	NS	ND(0.050)
Fluoranthene		NS	NS	NS	NS	NS	ND(0.010)
Fluorene		NS	NS	NS	NS	NS	ND(0.010)
Hexachlorobenzene		NS	NS	NS	NS	NS	ND(0.010)
Hexachlorobutadiene		NS	NS	NS	NS	NS	ND(0.0010)
Hexachlorocyclopentac	diene	NS	NS	NS	· NS	NS	ND(0.010)
Hexachloroethane		NS	NS	NS	NS	NS	ND(0.010)
Hexachlorophene		NS	NS	NS	NS	NS	ND(0.020)
Hexachloropropene		NS	NS	NS	NS	NS	ND(0.010) J
Indeno(1,2,3-cd)pyrene		NS	NS	NS	NS	NS	ND(0.010)
Isodrin		NS	NS	NS	NS	NS	ND(0.010)
Isophorone		NS	NS	NS	NS	NS	ND(0.010)
Isosafrole		NS	NS	NS	NS	NS	ND(0.010)
Kepone		NS NS	NS NS	NS	NS	NS	ND(0.050)
Methapyrilene		NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.010)
Methyl Methanesulfona	ate	NS NS	NS	NS NS	NS	NS	ND(0.010)
Methyl Parathion		NS NS	NS ND(0.0050)	NS VD(0.0050)	NS NS	NS NEC 20 (S)	ND(0.010)
Naphthalene		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
Nitrobenzene		NS	NS NG	NS NS	NS NS	NS NS	ND(0.010)
N-Nitrosodiethylamine		NS NS	NS NS	NS	NS NS	NS NS	ND(0.010)
N-Nitrosodimethylamir		NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.010)
N-Nitroso-di-n-butylam		NS NC	NS NS	NS NS	NS NS	NS NS	ND(0.010)
N-Nitroso-di-n-propyla N-Nitrosodiphenylamin		NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.010) ND(0.010)

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample ID: Parameter Date Collected:	16E 04/25/02	39D 04/23/02	43A 04/26/02	43B 04/26/02	51-14 04/23/02	54B 04/29/02
Semivolatile Organics (continued)	U-7/2J/U2	1 07/23/02	UT/ 20/U2	1 07/20/02	UT/EJ/UE	V-1/27/02
N-Nitrosomethylethylamine	NS	NS	NS	l NS	NS	ND(0.010)
N-Nitrosomorpholine	NS NS	NS NS	NS	NS NS	NS NS	ND(0.010)
N-Nitrosopiperidine	NS NS	NS NS	NS	NS NS	NS NS	ND(0.010)
N-Nitrosopyrrolidine	NS	NS	NS	NS	NS	ND(0.010)
o,o,o-Triethylphosphorothioate	NS	NS	NS	NS	NS	ND(0.010)
o-Toluidine	NS	NS	NS	NS	NS	ND(0.010)
p-Dimethylaminoazobenzene	NS	NS	NS	NS	NS	ND(0.010)
Pentachlorobenzene	NS	NS	NS	NS	NS	ND(0.010)
Pentachloroethane	NS	NS	NS	NS	NS	ND(0.010)
Pentachloronitrobenzene	NS	NS	NS	NS	NS	ND(0.010) J
Pentachlorophenol	NS	NS	NS	NS	NS	ND(0.050)
Phenacetin	NS	NS	NS	NS	NS	ND(0.010)
Phenanthrene	NS	NS	NS	NS	NS	ND(0.010)
Phenol	NS	NS	NS	NS	NS	ND(0.010)
Phorate	NS	NS	NS NS	NS	NS	ND(0.010)
Pronamide	NS NS	NS NS	NS	NS NS	NS NS	ND(0.010)
Pyrene Pyridine	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.010)
Safrole	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.010) ND(0.010)
Sulfotep	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.010) ND(0.010)
Thionazin	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.010)
Organochlorine Pesticides		310	1.0	1 10	110	1 112(0.010)
4.4'-DDD	NS	NS	NS	NS	NS	ND(0.00019)
1.4'-DDE	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.00019)
I,4'-DDT	NS	NS	NS	NS	NS NS	ND(0.00019)
Aldrin	NS	NS	NS	NS	NS	ND(0.000094)
Alpha-BHC	NS	NS	NS	NS	NS	ND(0.000094)
Alpha-Chlordane	NS	NS	NS	NS	NS	ND(0.00094)
Beta-BHC	NS	NS	NS	NS	NS	ND(0.00094)
Delta-BHC	NS	NS	NS	NS	NS	ND(0.000094)
Dieldrin	NS	NS	NS	NS	NS	ND(0.00019)
Endosulfan I	NS	NS	NS	NS	NS	ND(0.00010)
Endosulfan II	NS	NS	NS	NS	NS	ND(0.00019)
Endosulfan Sulfate	NS	NS	NS	NS	NS	ND(0.00019)
Endrin	NS	NS	NS	NS	NS	ND(0.00019)
Endrin Aldehyde	NS	NS	NS	NS	NS	ND(0.00019)
Endrin Ketone	NS	NS	NS	NS	NS	ND(0.00019)
Gamma-BHC (Lindane)	NS NS	NS	NS	NS	NS	ND(0.000094)
Gamma-Chlordane	NS NS	NS NS	NS	NS NS	NS NS	ND(0.000094)
deptachlor deptachlor Epoxide	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.000094)
Methoxychlor	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.00094) ND(0.00094)
Fechnical Chlordane	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.0094)
Oxaphene	NS NS	NS NS	NS NS	NS NS	NS	ND(0.0016)
Ierbicides		1,0 1	.,0	1,0	110	112(0.0010)
,4,5-T	NS	NS	NS	NS	NS	ND(0.0020)
,4,5-TP	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.0020)
,4-D	NS NS	NS NS	NS	NS NS	NS	ND(0.010)
Dinoseb	NS	NS	NS	NS	NS NS	ND(0.0010)
urans					-	
,3,7,8-TCDF	NS	NS	NS	NS	NS	ND(0.000000018)
CDFs (total)	NS	NS	NS	NS	NS	ND(0.000000018)
,2,3,7,8-PeCDF	NS	NS	NS	NS	NS	ND(0.0000000025)
3,4,7,8-PeCDF	NS	NS	NS	NS	NS	ND(0.0000000025)
eCDFs (total)	NS	NS	NS	NS	NS	ND(0.0000000025)
2,3,4,7,8-HxCDF	NS	NS	NS	NS	NS	ND(0.000000035)
2,3,6,7,8-HxCDF	NS	NS	NS	NS	NS	ND(0.0000000031)
2,3,7,8,9-HxCDF	NS	NS	NS	NS	NS	ND(0.000000039)
2 4 4 5 0 11 000	NS	NS	NS	NS	NS	ND(0.000000035)
3,4,6,7,8-HXCDF	NS	NS	NS	NS	NS	ND(0.000000035)
xCDFs (total)			3.70	310	>10	NTD/0 0000000025)
(xCDFs (total) ,2,3,4,6,7,8-HpCDF	NS	NS	NS	NS	NS	ND(0.0000000025)
3,4,6,7,8-HxCDF (xCDFs (total) 2,3,4,6,7,8-HpCDF 2,3,4,7,8,9-HpCDF	NS NS	NS	NS	NS	NS	ND(0.0000000025)
(xCDFs (total) ,2,3,4,6,7,8-HpCDF	NS				······································	

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample Parameter Date Collect		39D 04/23/02	43A 04/26/02	43B 04/26/02	51-14 04/23/02	54B 04/29/02
2,3,7,8-TCDD	NS	NS	NS	NS	NS	ND(0.000000035)
TCDDs (total)	NS	NS	NS	NS	NS	ND(0.000000035)
1,2,3,7,8-PeCDD	NS	NS	NS	NS	NS	ND(0.0000000025)
PeCDDs (total)	NS	NS	NS	NS	NS	ND(0.000000037)
1,2,3,4,7,8-HxCDD	NS	NS	NS	NS	NS	ND(0.000000086)
1,2,3,6,7,8-HxCDD	NS	NS	NS	NS	NS	ND(0.0000000076)
1,2,3,7,8,9-HxCDD	NS	NS	NS	NS	NS	ND(0.0000000078)
HxCDDs (total)	NS	NS NS	NS	NS	NS NS	ND(0.0000000080)
1,2,3,4,6,7,8-HpCDD	NS NS	NS NS	NS NS	NS NS	NS	ND(0.0000000029) X
HpCDDs (total) OCDD	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.0000000030) 0.000000017 J
Total TEQ (WHO TEFs)	NS NS	NS NS	NS NS	NS NS	NS NS	0.000000173
Inorganics-Unfiltered	1 100	1 110	1 1/10	l No	l No	0.000000037
Antimony	NS	NS	NS	NS	N _C	ND(0.0600)
Arsenic	NS NS	NS NS	NS NS	NS NS	NS NS	0.0170
Barium	NS NS	NS NS	NS NS	NS NS	NS NS	0.0170
Beryllium	NS NS	NS NS	NS NS	NS NS	NS NS	0.00230
Cadmium	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.00500)
Chromium	NS NS	NS	NS NS	NS NS	NS NS	0.0310
Cobalt	NS NS	NS	NS NS	NS NS	NS NS	ND(0.0500)
Copper	NS NS	NS	NS NS	NS NS	NS	0.0590
Cyanide	NS	NS	NS	NS NS	NS	ND(0.0100)
Lead	NS	NS	NS	NS	NS	0.0200
Mercury	NS	NS	NS	NS	NS	ND(0.000200)
Nickel	NS	NS	NS	NS	NS	0.0430
Selenium	NS	NS	NS	NS	NS	ND(0.00500)
Silver	NS	NS	NS	NS	NS	ND(0.00500)
Sulfide	NS	NS	NS	NS	NS	ND(5.00)
Thallium	NS	NS	NS	NS	NS	ND(0.0100)
Tin	NS	NS	NS	NS	NS	ND(0.0300)
Vanadium	NS	NS	NS	NS	NS	ND(0.0500)
Zinc	NS	NS	NS	NS	NS	0.210
Inorganics-Filtered						
Antimony	NS	NS	NS	NS	NS	ND(0.0600)
Arsenic	NS	NS	NS	NS	NS	ND(0.100)
Barium	NS	NS	NS	NS	NS	ND(0.200)
Beryllium	NS	NS	NS	NS	NS	0.000820 B
Cadmium	NS	NS	NS	NS	NS	ND(0.0100)
Chromium	NS	NS	NS	NS	NS	ND(0.0250)
Cobalt	NS	NS	NS	NS	NS	ND(0.0500)
Copper	NS	NS	NS	NS	NS	ND(0.100)
Lead	NS	NS	NS	NS	NS	ND(0.00300)
Mercury	NS	NS	NS	NS	NS	ND(0.000200)
Nickel	NS NS	NS	NS	NS	NS	ND(0.0400)
Selenium	NS NS	NS NG	NS NS	NS	NS NG	ND(0.00500)
Silver	NS NS	NS	NS NS	NS	NS NS	ND(0.00500)
Thallium Tin	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.0100)
Vanadium	NS NS	NS NS	NS NS	NS NS	NS NS	ND(0.0300) ND(0.0500)
vanadium Zinc	NS NS	NS NS	NS NS	NS NS	NS NS	0.0160 B
Natural Attenuation Parameters	1 110	L 110	1 100	140	140	I 0.0100 D
Alkalinity (Total)	79.0	160	330	570	NS	NS
Chloride	1.8	4.0	29	49	NS NS	NS NS
Dissolved Organic Carbon	3.20	2.10	4.30	9.00	NS NS	NS NS
Ethane	ND(0.10)	ND(0.020)	ND(0.050)	ND(0.10)	NS NS	NS NS
Ethene	ND(0.10)	ND(0.020)	ND(0.050)	ND(0.10)	NS NS	NS NS
Dissolved Iron	ND(0.0500)	0.130	ND(0.0500)	ND(0.0500)	NS NS	NS NS
	2.00	0.0230	0.730	1.30	NS NS	NS NS
Methane		1 0.0430	0.750		1413	140
Methane Nitrate Nitrogen			0.0200 B	0.0170 B	Ne	Nic
Methane Nitrate Nitrogen Nitrite Nitrogen	0.110 ND(0.0500)	0.0370 B ND(0.0500)	0.0200 B ND(0.0500)	0.0170 B ND(0.0500)	NS NS	NS NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

	mple ID: 78B-R	GMA3-2	GMA3-4	GMA3-6	MW-39-E
Parameter Date C	Collected: 04/25/02	04/26/02	04/23/02	04/25/02	04/25/02
Volatile Organics					
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050) J	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropan	e ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J
2-Butanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
2-Hexanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Acetonitrile	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrolein	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrylonitrile	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Benzene	2.5	0.016	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Carbon Disulfide	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	2.5	ND(0.0050)	ND(0.0050)	0.0096	ND(0.0050)
Chloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	0.019	0.019	ND(0.0050)	ND(0.0050)	ND(0.0050)
Iodomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Isobutanol	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Methacrylonitrile	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Styrene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
l'etrachloroethene	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Toluene	0.0044 J	0.011	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Acetate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Xylenes (total)	0.052 EJ	0.079 EJ	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	5.1	0.13 J	ND(0.20)	0.0096	ND(0.20)

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample ID: Parameter Date Collected:	78B-R 04/25/02	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-E 04/25/02
PCBs-Unfiltered			- L		
Aroclor-1016	ND(0.00050)	NS	NS	ND(0.000065)	NS
Aroclor-1221	ND(0.00050)	NS NS	NS NS	ND(0.000065)	NS
Aroclor-1232	ND(0.00050)	NS NS	NS NS	ND(0.000065)	NS
Aroclor-1242	ND(0.00050)	NS	NS	ND(0.000065)	NS
Aroclor-1248	0.0056	NS NS	NS NS	ND(0.000065)	NS
Aroclor-1254	0.0017	NS	NS	ND(0.000065)	NS
Aroclor-1260	ND(0.00050)	NS	NS	ND(0.000065)	NS
Total PCBs	0.0073	NS	NS	ND(0.000065)	NS
PCBs-Filtered				1.1.(0.0000)	1
Aroclor-1016	ND(0.000065)	NS	NS	ND(0.000065)	l NS
Aroclor-1221	ND(0.000065)	NS NS	NS NS	ND(0.000065)	NS
Aroclor-1232	ND(0.000065)	T NS	NS	ND(0.000065)	NS
Aroclor-1242	ND(0.000065)	NS NS	NS NS	ND(0.000065)	NS NS
Aroclor-1248	ND(0.000065)	NS NS	NS NS	ND(0.000065)	NS NS
Aroclor-1254	ND(0.000065)	NS NS	NS NS	ND(0.00005)	NS NS
Aroclor-1254 Aroclor-1260	ND(0.000065)	NS NS	NS NS	ND(0.000065)	···
Total PCBs	ND(0.000065)	NS NS	NS NS	ND(0.000065)	NS NS
Semivolatile Organics	1412(0.000003)	I WO	l 6ri	(כמטטטטיט)עדו	I 1/2
1,2,4,5-Tetrachlorobenzene	MD(0 010) I	l No	N ₁₀ 1	NID(0.010)	370
1,2,4,3- Tetrachiorobenzene	ND(0.010) J	NS ND(0.0050)	NS ND(0.0050)	ND(0.010)	NS ND(0.0050)
1,2,4-1 richlorobenzene	ND(0.010) J	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
***************************************	ND(0.010) J	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
1,2-Diphenylhydrazine	ND(0.010) J	NS	NS	ND(0.010)	NS
1,3,5-Trinitrobenzene	ND(0.010) J	NS	NS	ND(0.010) J	NS
,3-Dichlorobenzene	ND(0.010) J	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
,3-Dinitrobenzene	ND(0.010) J	NS	NS	ND(0.010) J	NS NS
,4-Dichlorobenzene	0.016 J	0.0037 J	ND(0.0050)	ND(0.010)	ND(0.0050)
,4-Naphthoquinone	ND(0.010) J	NS	NS	ND(0.010)	NS
-Naphthylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
2,3,4,6-Tetrachlorophenol	ND(0.010)	NS	NS	ND(0.010) J	NS
2,4,5-Trichlorophenol	ND(0.010)	NS	NS	ND(0.010)	NS
2,4,6-Trichlorophenol	ND(0.010)	NS	NS	ND(0.010)	NS
2,4-Dichlorophenol	ND(0.010)	NS	NS	ND(0.010)	NS
2,4-Dimethylphenol	ND(0.010)	NS	NS	ND(0.010)	NS
2,4-Dinitrophenol	ND(0.050)	NS	NS	ND(0.050)	NS
2,4-Dinitrotoluene	ND(0.010) J	NS	NS	ND(0.010)	NS
.,6-Dichlorophenol	ND(0.010)	NS	NS	ND(0.010)	NS
,6-Dinitrotoluene	ND(0.010) J	NS	NS	ND(0.010) J	NS
-Acetylaminofluorene	ND(0.010) J	NS	NS	ND(0.010)	NS
-Chloronaphthalene	ND(0.010) J	NS	NS	ND(0.010)	NS
-Chlorophenol	0.0060 J	NS	NS	ND(0.010)	NS
-Methylnaphthalene	0.0074 J	NS	NS	ND(0.010)	NS
-Methylphenol	ND(0.010)	NS	NS	ND(0.010)	NS
-Naphthylamine	ND(0.010) J	NS	· NS	ND(0.010)	NS
-Nitroaniline	ND(0.050) J	NS	NS	ND(0.050)	NS
-Nitrophenol	ND(0.010)	NS	NS	ND(0.010)	NS
-Picoline	ND(0.010) J	NS	NS	ND(0.010)	NS
&4-Methylphenol	ND(0.010)	NS	NS	ND(0.010)	NS
,3'-Dichlorobenzidine	ND(0.020) J	NS	NS	ND(0.020)	NS
,3'-Dimethylbenzidine	ND(0.010) J	NS	NS	ND(0.010)	NS
-Methylcholanthrene	ND(0.010) J	NS	NS	ND(0.010)	NS
-Nitroaniline	ND(0.050) J	NS	NS	ND(0.050)	NS
6-Dinitro-2-methylphenol	ND(0.050)	NS	NS	ND(0.050)	NS
-Aminobiphenyl	ND(0.010) J	NS	NS	ND(0.010)	NS
Bromophenyl-phenylether	ND(0.010) J	NS	NS	ND(0.010)	NS
-Chloro-3-Methylphenol	ND(0.010)	NS	NS	ND(0.010)	NS
Chloroaniline	ND(0.010) J	NS	NS	ND(0.010)	NS
Chlorobenzilate	ND(0.010) J	NS NS	NS	ND(0.010) J	NS
-Chlorophenyl-phenylether	ND(0.010) J	NS	NS NS	ND(0.010)	NS
Nitroaniline	ND(0.050) J	NS NS	NS	ND(0.050)	NS NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Sample ID:	78B-R	GMA3-2	GMA3-4	GMA3-6	MW-39-E
Parameter Date Collected:	04/25/02	04/26/02	04/23/02	04/25/02	04/25/02
Semivolatile Organics (continued)					
4-Nitrophenol	ND(0.050)	NS	NS	ND(0.050)	NS
4-Nitroquinoline-1-oxide	ND(0.010) J	NS	NS	ND(0.010)	NS
4-Phenylenediamine	ND(0.010) J	NS	NS	ND(0.010) J	NS
5-Nitro-o-toluidine	ND(0.010) J	NS	NS	ND(0.010)	NS
7,12-Dimethylbenz(a)anthracene	ND(0.010) J	NS	NS	ND(0.010) J	NS
a,a'-Dimethylphenethylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
Acenaphthene	0.0049 J	NS NS	NS	ND(0.010)	NS NS
Acenaphthylene	ND(0.010) J	NS	NS	ND(0.010)	NS NS
Acetophenone	ND(0.010) J	NS	NS	ND(0.010)	NS
Aniline	ND(0.010) J	NS NS	NS NS	ND(0.010)	NS NS
Anthracene	ND(0.010) J ND(0.010) J	NS NS	NS NS	ND(0.010)	NS NS
Aramite Benzidine			NS NS	ND(0.010) J	NS NS
Benzo(a)anthracene	ND(0.020) J	NS NS	NS NS	ND(0.020) J ND(0.010)	NS NS
Benzo(a)pyrene	ND(0.010) J ND(0.010) J	NS NS	NS NS	ND(0.010)	NS NS
Benzo(b)fluoranthene	ND(0.010) J	NS NS	NS	ND(0.010)	NS NS
Benzo(g,h,i)perylene	ND(0.010) J	NS NS	NS NS	ND(0.010) ND(0.010)	NS NS
Benzo(k)fluoranthene	ND(0.010) J	NS NS	NS	ND(0.010)	NS NS
Benzyl Alcohol	ND(0.020)	NS NS	NS NS	ND(0.020)	NS NS
bis(2-Chloroethoxy)methane	ND(0.010) J	NS	NS	ND(0.010)	NS
bis(2-Chloroethyl)ether	ND(0.010) J	NS	NS	ND(0.010)	NS
bis(2-Chloroisopropyl)ether	ND(0.010) J	NS	NS	ND(0.010)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0060) J	NS	NS	ND(0.0060)	NS
Butylbenzylphthalate	ND(0.010) J	NS	NS	ND(0.010)	NS
Chrysene	ND(0.010) J	NS	NS	ND(0.010)	NS
Diallate	ND(0.010) J	NS	NS	ND(0.010)	NS
Dibenzo(a,h)anthracene	ND(0.010) J	NS	NS	ND(0.010)	NS
Dibenzofuran	0.0046 J	NS	NS	ND(0.010)	NS
Diethylphthalate	ND(0.010) J	NS	NS	ND(0.010)	NS
Dimethoate	ND(0.050) J	NS	NS	ND(0.050)	NS
Dimethylphthalate	ND(0.010) J	NS	NS	ND(0.010)	NS
Di-n-Butylphthalate	ND(0.010) J	NS	NS	ND(0.010)	NS
Di-n-Octylphthalate	ND(0.010) J	NS	NS	ND(0.010)	NS
Diphenylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
Disulfoton	ND(0.010) J	NS	NS	ND(0.010)	NS
Ethyl Methanesulfonate	ND(0.010) J	NS	NS	ND(0.010)	NS
Ethyl Parathion	ND(0.010) J	NS	NS	ND(0.010)	NS
Famphur	ND(0.050) J	NS	NS	ND(0.050)	NS
Fluoranthene	ND(0.010) J	NS	NS	ND(0.010)	NS
Fluorene	0.0041 J	NS	NS	ND(0.010)	NS
Hexachlorobenzene	ND(0.010) J	NS	NS	ND(0.010)	NS
Hexachlorobutadiene	ND(0.0010)	NS	NS	ND(0.0010)	NS
Hexachlorocyclopentadiene	ND(0.010) J	NS NS	· NS	ND(0.010)	NS NS
Hexachloroethane	ND(0.010) J	NS NS	NS NS	ND(0.010)	NS
Hexachlorophene	ND(0.020) J	NS NS	NS NS	ND(0.020)	NS NS
Hexachloropropene	ND(0.010) J	NS NS	NS NS	ND(0.010) J	NS
Indeno(1,2,3-cd)pyrene	ND(0.010) J ND(0.010) J	NS NS	NS NS	ND(0.010)	NS NG
Isodrin	ND(0.010) J ND(0.010) J	NS NS	·	ND(0.010)	NS
Isophorone Isosafrole	ND(0.010) J ND(0.010) J	NS NS	NS NS	ND(0.010) ND(0.010)	NS NS
Kepone	ND(0.010) J ND(0.050) J	NS NS	NS NS	ND(0.010) ND(0.050)	··-
Methapyrilene	ND(0.030) J ND(0.010) J	NS NS	NS NS	ND(0.030) ND(0.010)	NS NS
Methyl Methanesulfonate	ND(0.010) J	NS NS	NS NS	ND(0.010) ND(0.010)	NS NS
Methyl Parathion	ND(0.010) J	NS NS	NS NS	ND(0.010) ND(0.010)	NS NS
Naphthalene	ND(0.010) J	0.0026 J	ND(0.0050)	ND(0.010) ND(0.010)	ND(0.0050)
Vapninaiene Vitrobenzene	ND(0.010) J	NS	ND(0.0030) NS	ND(0.010) ND(0.010)	NS NS
N-Nitrosodiethylamine	ND(0.010) J	NS NS	NS NS	ND(0.010)	NS NS
N-Nitrosodiethylamine	ND(0.010) J	NS NS	NS NS	ND(0.010)	NS NS
N-Nitrosodimethylamine	ND(0.010) J	NS NS	NS NS	ND(0.010)	NS NS
N-Nitroso-di-n-propylamine	ND(0.010) J	NS NS	NS NS	ND(0.010)	NS NS
N-Nitrosodiphenylamine	ND(0.010) J	NS NS	NS NS	ND(0.010)	NS NS

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

San Parameter Date Co	ple ID: 78B-R llected: 04/25/02	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-1 04/25/02
Semivolatile Organics (contin	ued)				
N-Nitrosomethylethylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitrosomorpholine	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitrosopiperidine	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitrosopyrrolidine	ND(0.010) J	NS	NS	ND(0.010)	NS
o,o,o-Triethylphosphorothioate		NS	NS	ND(0.010)	NS
o-Toluidine	ND(0.010) J	NS	NS	ND(0.010)	NS
p-Dimethylaminoazobenzene	ND(0.010) J	NS	NS	ND(0.010)	NS
Pentachlorobenzene	ND(0.010) J	NS	NS	ND(0.010)	NS
Pentachloroethane	ND(0.010) J	NS	NS	ND(0.010)	NS
Pentachloronitrobenzene	ND(0.010) J	NS	NS	ND(0.010) J	NS
Pentachlorophenol	ND(0.050)	NS	NS	ND(0.050)	NS
Phenacetin	ND(0.010) J	NS	NS	ND(0.010)	NS
Phenanthrene	0.0050 J	NS	NS	ND(0.010)	NS
Phenol	0.016	NS	NS	ND(0.010)	NS
Phorate	ND(0.010) J	NS	NS	ND(0.010)	NS
Pronamide	ND(0.010) J	NS	NS	ND(0.010)	NS
Pyrene	ND(0.010) J	NS	NS	ND(0.010)	NS
yridine	ND(0.010) J	NS	NS	ND(0.010)	NS
Safrole	ND(0.010) J	NS	NS	ND(0.010)	NS
Sulfotep	ND(0.010) J	NS	NS	ND(0.010)	NS
Γhionazin	ND(0.010) J	NS	NS	ND(0.010)	NS
Organochlorine Pesticides					
,4'-DDD	ND(0.00010)	NS	NS	ND(0.00010)	NS
,4'-DDE	ND(0.00010)	NS	NS	ND(0.00010)	NS
,4'-DDT	ND(0.00010)	NS	NS	ND(0.00010) J	NS
Aldrin	ND(0.000050)	NS	NS	ND(0.000050)	NS
Alpha-BHC	ND(0.000050)	NS	NS	ND(0.000050)	NS
Alpha-Chlordane	ND(0.000050)	NS NS	NS NS	ND(0.000050)	NS
Beta-BHC	ND(0.000050)	NS NS	NS NS	ND(0.000050)	NS
Delta-BHC	ND(0.000050)	NS NS	NS NS	ND(0.000050)	NS
Dieldrin	ND(0.00010)	NS NS	NS NS	ND(0.00010)	NS
ndosulfan I	ND(0.00010)	NS NS	NS	ND(0.00010)	NS
ndosulfan II	ND(0.00010)	NS NS	NS NS	ND(0.00010)	NS NS
ndosulfan Sulfate	ND(0.00010)	NS NS	NS NS	ND(0.00010)	NS NS
ndrin	ND(0.00010)	NS NS	NS NS	ND(0.00010)	NS NS
ndrin Aldehyde	ND(0.00010)	NS NS	NS NS	ND(0.00010)	NS NS
ndrin Ketone	ND(0.00010)	NS NS	NS NS	·}	
Gamma-BHC (Lindane)	ND(0.00010)	NS NS	NS NS	ND(0.00010) ND(0.000050)	NS NG
famma-Chlordane	ND(0.000050)	NS NS	NS NS	ND(0.000050)	NS NS
leptachlor	ND(0.000050)	NS NS	NS NS	· 	NS NS
leptachlor Epoxide	ND(0.000050)	NS NS	NS NS	ND(0.000050)	NS NS
1ethoxychlor	ND(0.00050)	NS NS	NS NS	ND(0.000050)	NS NS
echnical Chlordane	ND(0.00050)			ND(0.00050) J	NS NS
oxaphene	ND(0.00030)	NS NS	NS NS	ND(0.00050)	NS
(erbicides	[ND(0.0010)	1/10	N9	ND(0.0010)	NS
	VID(0.0020)).'O	7.7		
4,5-T	ND(0.0020)	NS NS	NS NS	ND(0.0020)	NS
4,5-TP	ND(0.0020)	NS	NS	ND(0.0020)	NS
4-D	ND(0.010)	NS NS	NS NS	ND(0.010)	NS
inoseb	ND(0.0010)	NS	NS	ND(0.0010)	NS
urans					
3,7,8-TCDF	ND(0.000000027)	NS	NS	ND(0.000000016)	NS
CDFs (total)	ND(0.000000027)	NS	NS	ND(0.000000016)	NS
2,3,7,8-PeCDF	ND(0.000000028) X	NS	NS	ND(0.0000000025)	NS
3,4,7,8-PeCDF	0.000000053 J	NS	NS	ND(0.000000019) X	NS
CDFs (total)	0.00000021	NS	NS	ND(0.0000000025)	NS
2,3,4,7,8-HxCDF	0.00000015 J	NS	NS	ND(0.000000018) X	NS
2,3,6,7,8-HxCDF	0.0000000061 J	NS	NS	ND(0.000000025)	NS
2,3,7,8,9-HxCDF	0.000000044 J	NS	NS	ND(0.0000000025)	NS
3,4,6,7,8-HxCDF	0.0000000044 J	NS	NS	ND(0.0000000025)	NS
xCDFs (total)	0.00000055	NS	NS	ND(0.0000000025)	NS
2,3,4,6,7,8-HpCDF	0.000000074 J	NS	NS .	ND(0.000000025)	NS
2,3,4,7,8,9-HpCDF	0.000000039 J	NS	NS	ND(0.0000000025)	NS
pCDFs (total)	0.00000011	NS	NS	ND(0.0000000025)	NS
CDF	0.000000068 J	NS	NS	ND(0.0000000050)	NS NS
ioxins					110

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

Parameter	Sample ID: Date Collected:	78B-R 04/25/02	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-E 04/25/02
2,3,7,8-TCDD		ND(0.0000000026)	NS	NS NS	ND(0.0000000026)	NS
TCDDs (total)		ND(0.0000000032)	NS NS	NS NS	ND(0.0000000026)	NS NS
1,2,3,7,8-PeCDD		ND(0.0000000032)	NS NS	NS NS	ND(0.0000000020)	NS NS
PeCDDs (total)		ND(0.0000000033)	NS	NS NS	ND(0.000000036)	NS
1,2,3,4,7,8-HxCD	n l	ND(0.0000000094)	NS NS	NS NS	ND(0.000000033)	NS NS
1,2,3,6,7,8-HxCD		ND(0.0000000083)	NS	NS	ND(0.0000000033)	NS
1,2,3,7,8,9-HxCD		ND(0.0000000085)	NS	NS NS	ND(0.0000000029)	NS NS
HxCDDs (total)		ND(0.0000000087)	NS NS	NS	ND(0.000000030)	NS NS
1,2,3,4,6,7,8-HpC	DD	0.0000000039 J	NS	NS	0.000000000001)	NS
HpCDDs (total)		0.0000000085	NS	NS	0.000000020	NS
OCDD		0.0000000030 J	NS	NS	0.0000000020 0.0000000075 J	NS NS
Total TEQ (WHO	O TEFs)	0.000000010	NS	NS	0.00000000753	NS NS
Inorganics-Unfile		0.000000.0	110	1,0	0.00000000	140
Antimony		ND(0.0600)	NS	NS	ND(0.0600)	l NS
Arsenic		ND(0.0100)	NS NS	NS NS	0.0160	NS NS
Barium		1.20	NS NS	NS NS	0.350	NS NS
Beryllium		ND(0.00100)	NS	NS NS	ND(0.00100)	NS NS
Cadmium		ND(0.00100)	NS NS	NS NS	ND(0.00100) ND(0.00500)	NS NS
Chromium		ND(0.0100)	NS NS	NS NS	ND(0.00300) ND(0.0100)	NS NS
Cobalt		ND(0.0500)	NS NS	NS NS	ND(0.0500)	NS NS
Copper		ND(0.0250)	NS NS	NS NS	ND(0.0300) ND(0.0250)	NS NS
Cyanide		ND(0.0230)	NS NS	NS NS	ND(0.0250) ND(0.0100)	NS NS
Lead		0.00220 B	NS NS	NS NS	ND(0.0100) ND(0.00300)	NS NS
Mercury		ND(0.00220 B	NS NS	NS NS	ND(0.00300) ND(0.000200)	
Nickel		ND(0.0400)	NS NS	NS NS	ND(0.00200) ND(0.0400)	NS NS
Selenium		ND(0.00500)	NS NS	NS NS	ND(0.0400) ND(0.00500)	NS NS
Silver		ND(0.00500)	NS NS	NS NS	<u> </u>	NS NS
Sulfide		ND(5.00)	NS NS	NS NS	ND(0.00500)	
Thallium		ND(0.0100) J	NS NS	NS NS	ND(5.00)	NS NS
Tin		ND(0.0300)	NS NS	NS NS	ND(0.0100) ND(0.0300)	NS NS
Vanadium		ND(0.0500)	NS NS	NS NS		NS NS
Zinc		ND(0.0200) J	NS NS	NS NS	ND(0.0500)	NS NS
Inorganics-Filter	od l	14D(0.0200)3	11/3	No.	ND(0.0200)	1 1/19
Antimony	cu	ND(0.0600)	310	370	277 (0.0(00)	
Arsenic		ND(0.100)	NS NS	NS NS	ND(0.0600)	NS
Barium		0.970	NS NS	NS NS	ND(0.100)	NS
Beryllium		ND(0.00100)	NS NS	NS NG	0.260	NS NS
Cadmium		ND(0.0100) ND(0.0100)	NS ·	NS NS	ND(0.00100)	NS
Chromium				NS NS	ND(0.0100)	NS
Cobalt		ND(0.0250) ND(0.0500)	NS NS	NS NS	ND(0.0250)	NS NS
Соррег		ND(0.100)	NS NS	NS NS	ND(0.0500)	NS
ead		ND(0.00300)	NS NS	NS NS	ND(0.100) ND(0.00300)	NS NS
Mercury	-	ND(0.00300)	NS NS	NS NS	ND(0.00300) ND(0.000200)	NS NS
Vickel		ND(0.0400)	NS NS	· NS	ND(0.000200)	
Selenium		ND(0.0400) ND(0.00500)	NS NS	NS NS	ND(0.0400) ND(0.00500)	NS NS
Silver		ND(0.00500)	NS NS	NS NS	ND(0.00500)	NS NS
Thallium		ND(0.0100) J	NS NS	NS NS	ND(0.0100)	
Cin		ND(0.0300)	NS NS	NS NS	ND(0.0100) ND(0.0300)	NS NS
∕anadium		ND(0.0500)	NS NS	NS NS	ND(0.0300) ND(0.0500)	NS NS
Zinc		ND(0.0300) J	NS NS	NS NS	ND(0.0300) ND(0.0200)	NS NS
Natural Attenuati	on Parameters	1,5(0,0200)3	110	110	112/(0.0200)	149
Alkalinity (Total)		NS	Ne T	Nie I	Ntc.	240
Chloride		NS NS	NS NS	NS NS	NS NS	24.0
Dissolved Organic	Carbon	NS NS	NS NS	NS NS	NS NS	9.2
thane	Carbon	NS NS	NS NS	NS NS	NS NG	5.20
			NS NS	NS NS	NS NS	ND(0.0010)
thene Dissolved Iron		NS NS	NS NS	NS NS	NS NG	ND(0.0010)
				NS NS	NS NS	ND(0.0500)
lethane		NS NC	NS NS	NS NS	NS NS	ND(0.00100)
litrate Nitrogen		NS NS	NS NS	NS NS	NS NS	1.00
litrite Nitrogen	-:	NS NG	NS NS	NS NS	NS NS	ND(0.0500)
ulfate (turbidimet	nc)	NS	NS	NS	NS	5.70

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Notes:

- Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis
 of PCBs, other Appendix IX + 3 constituents and Natural Attenuation Parameters.
- Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
- 3. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- 4. NS Not Sampled Parameter was not requested on sample chain of custody form.
- 5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
- 6. Duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

- J Indicates that the associated numerical value is an estimated concentration.
- E Analyte exceeded calibration range.
- X Estimated maximum possible concentration.

Inorganics

- B Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J Indicates that the associated numerical value is an estimated concentration.

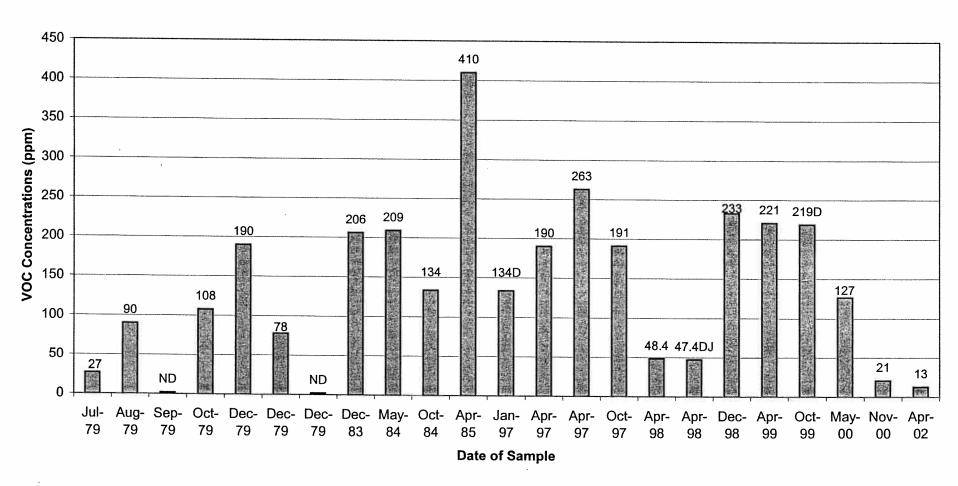
Appendix F

Historical Groundwater Data



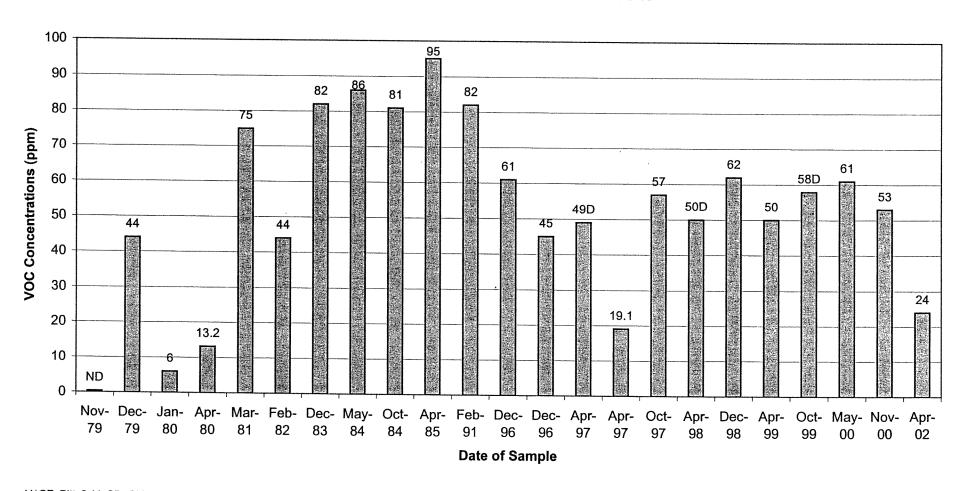
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 2A Historical Total VOC Concentrations



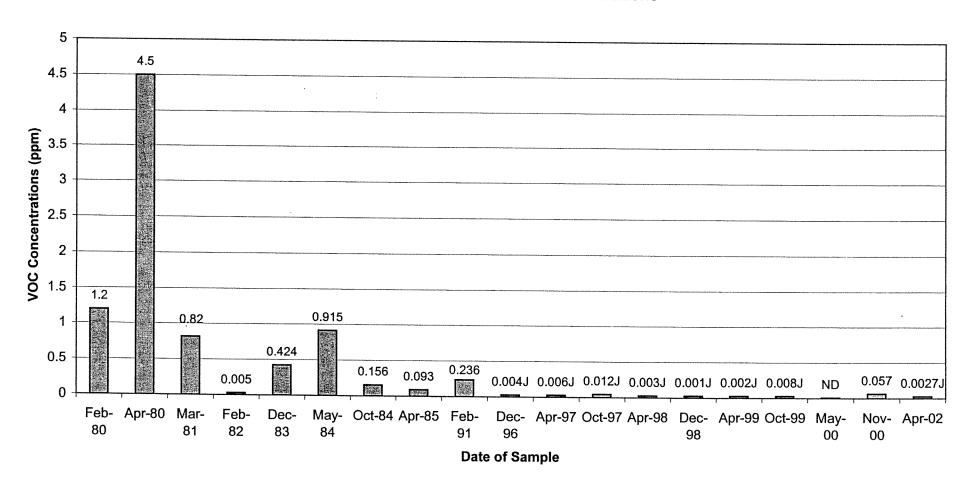
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 16A Historical Total VOC Concentrations



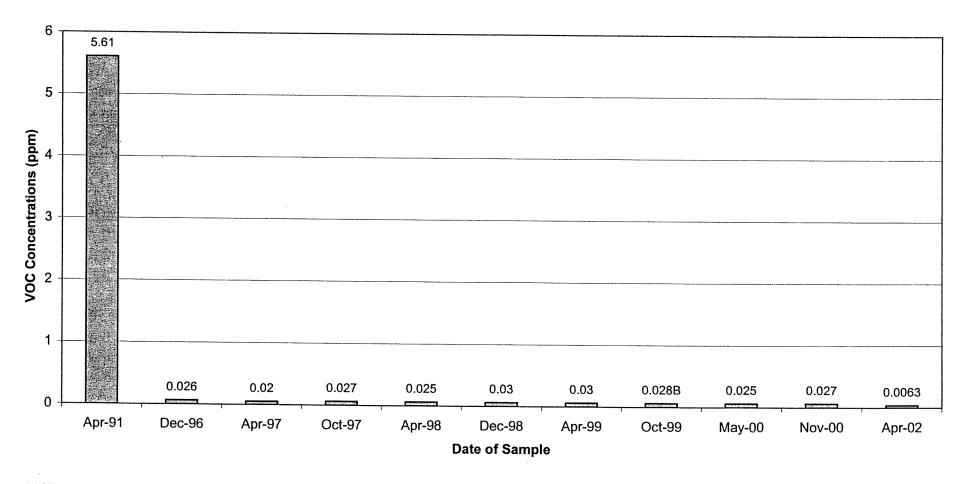
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 16C Historical Total VOC Concentrations



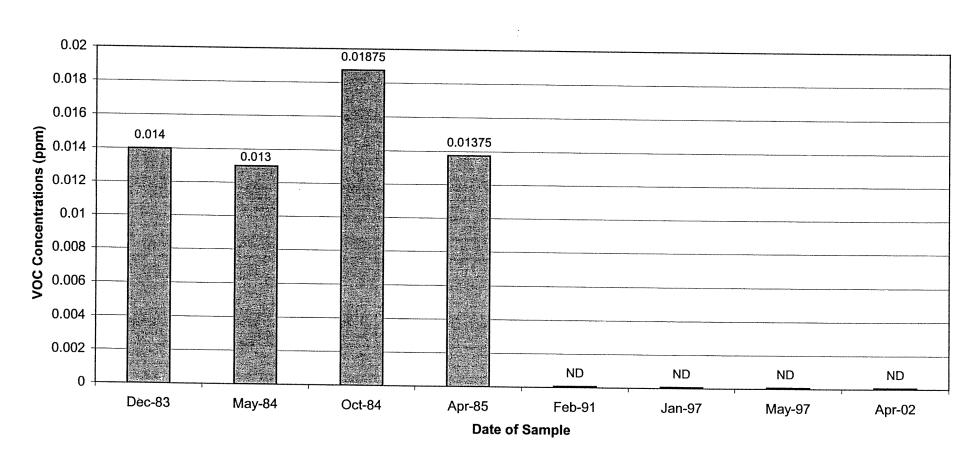
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 39D Historical Total VOC Concentrations



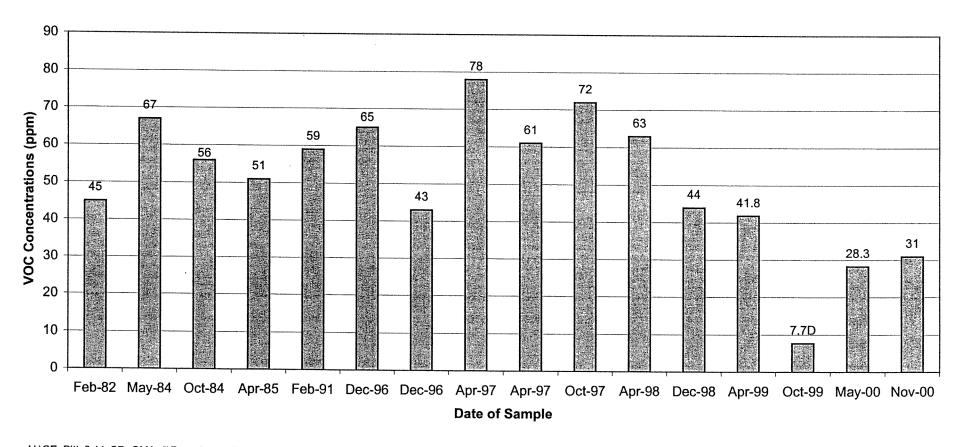
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 43A Historical Total VOC Concentrations



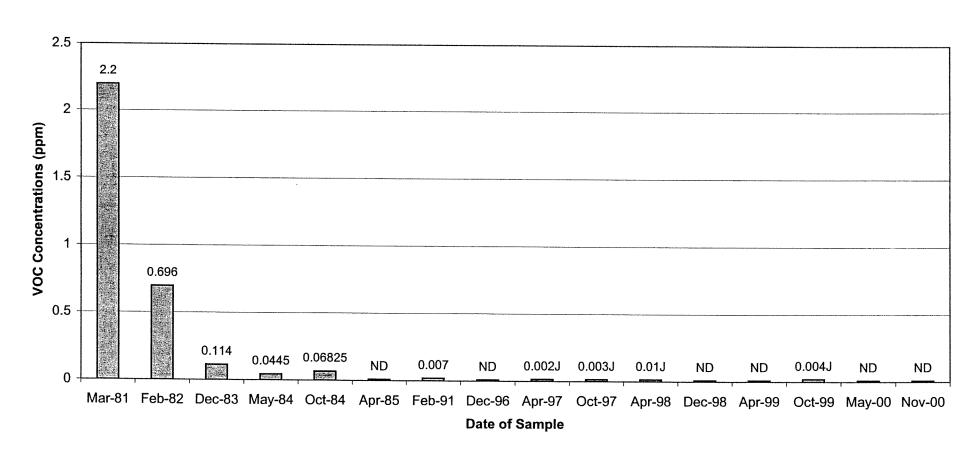
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 89A Historical Total VOC Concentrations



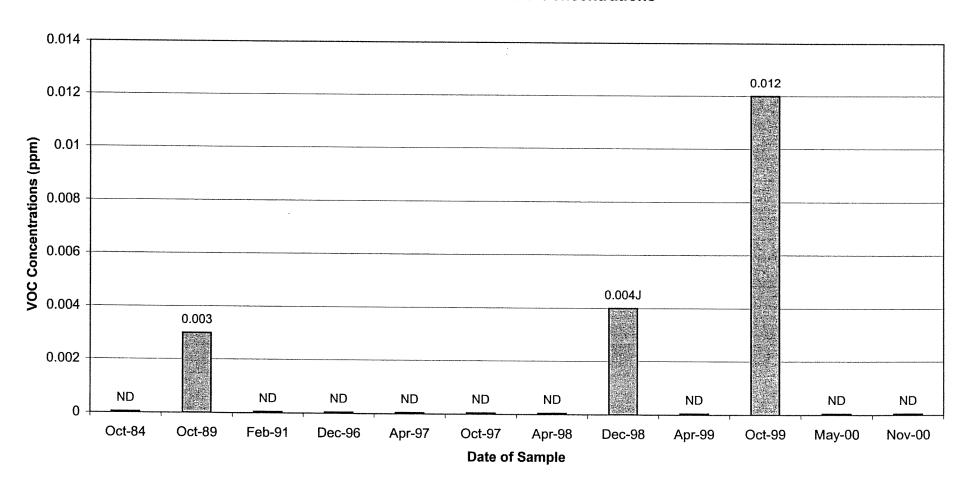
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 89D Historical Total VOC Concentrations



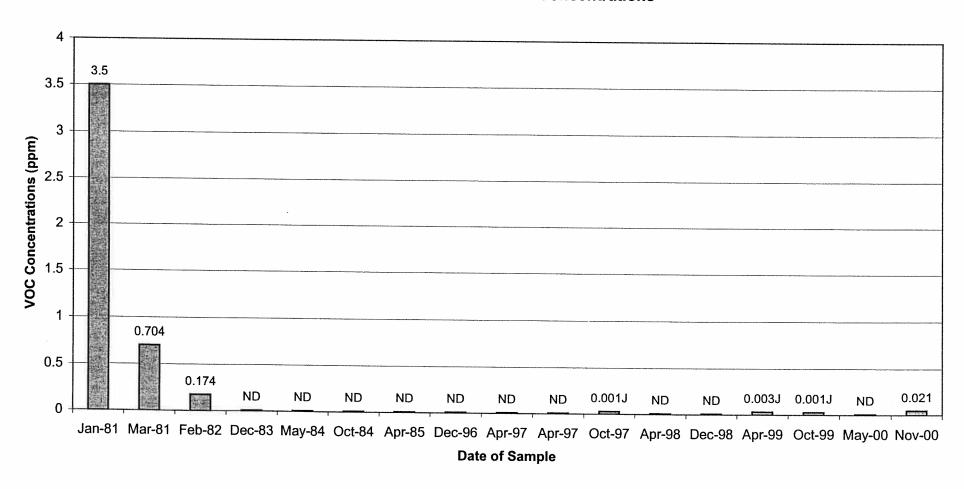
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 90A Historical Total VOC Concentrations



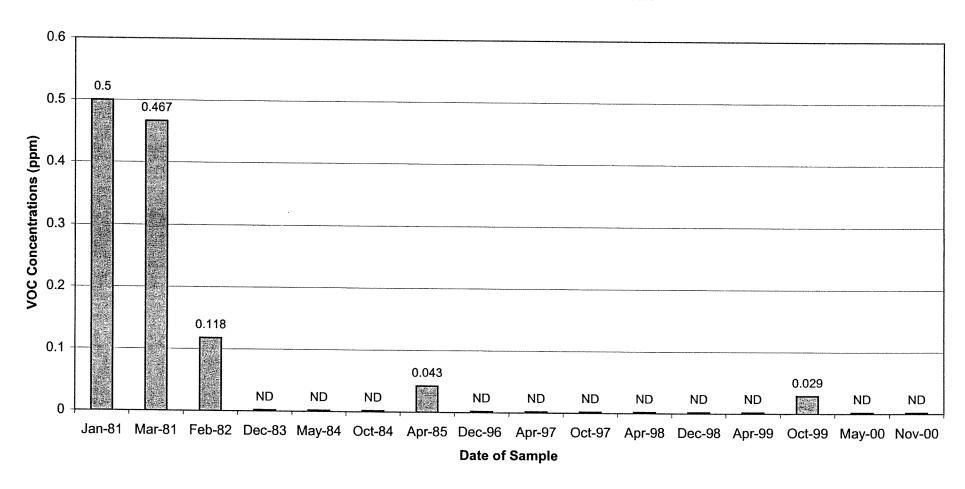
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 95A Historical Total VOC Concentrations



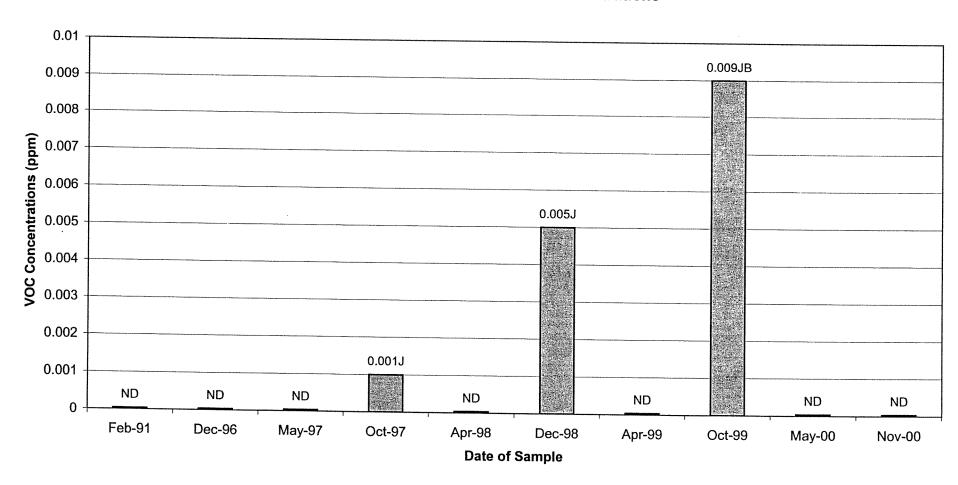
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 95C Historical Total VOC Concentrations



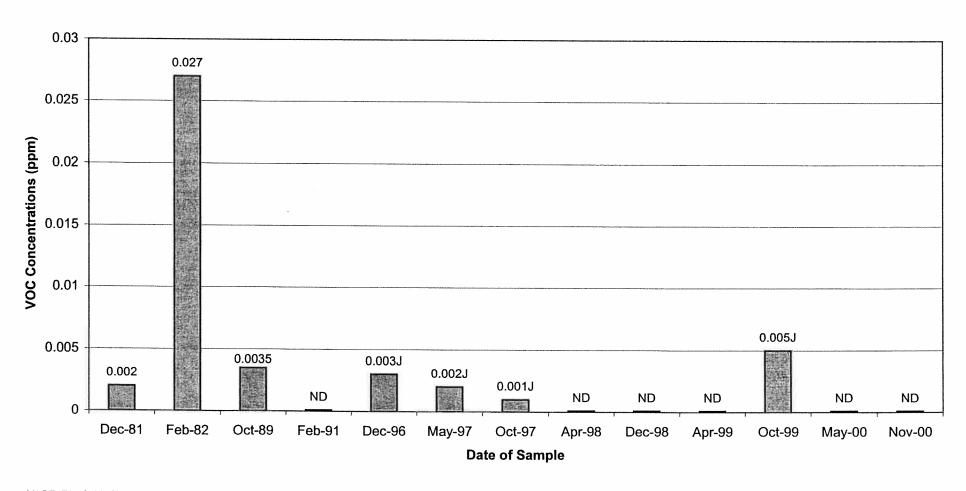
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 111A Historical Total VOC Concentrations



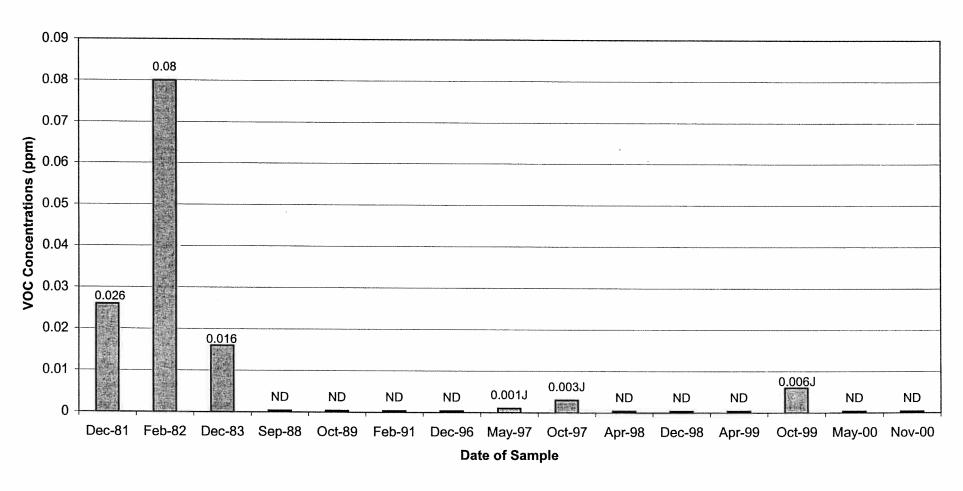
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 114A Historical Total VOC Concentrations



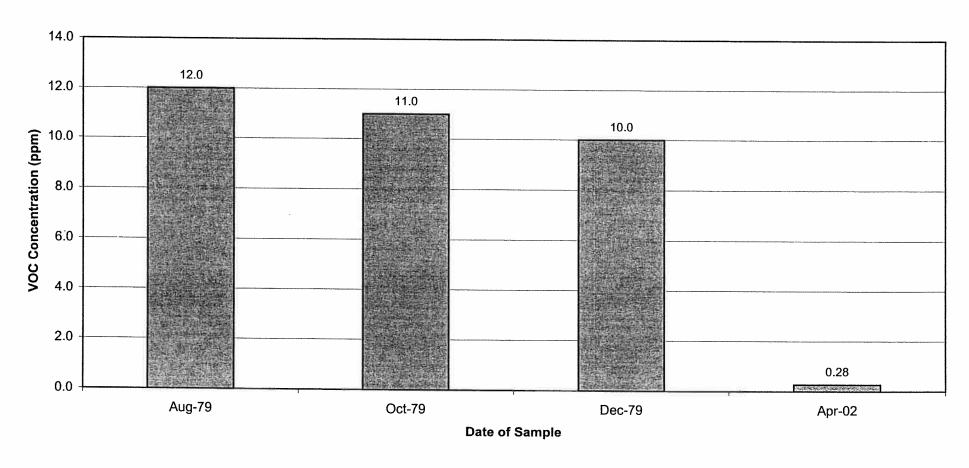
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 114C Historical Total VOC Concentrations



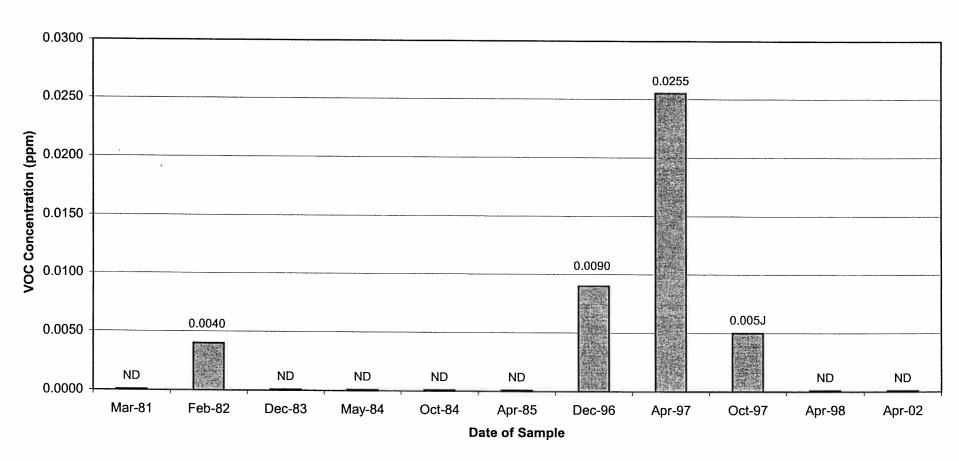
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 6B Historical Total VOC Concentrations



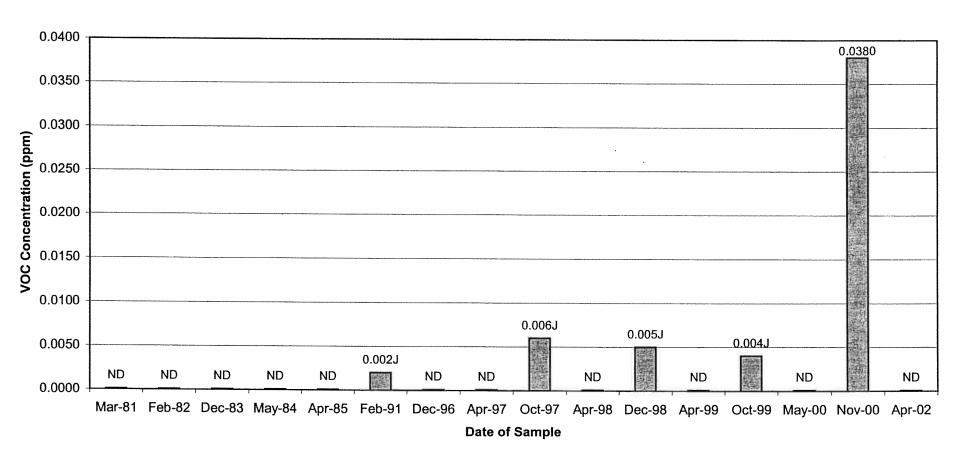
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 16B/16B-R Historical Total VOC Concentrations



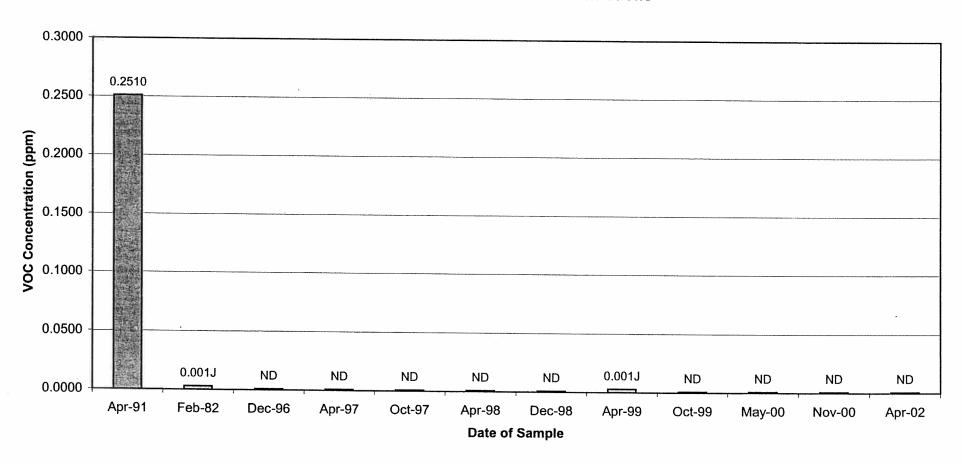
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 16E Historical Total VOC Concentrations



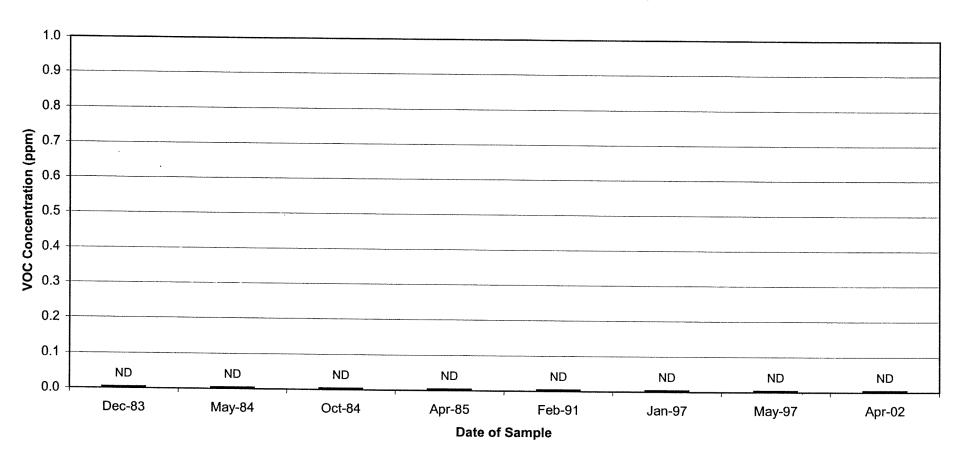
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 39E Historical Total VOC Concentrations



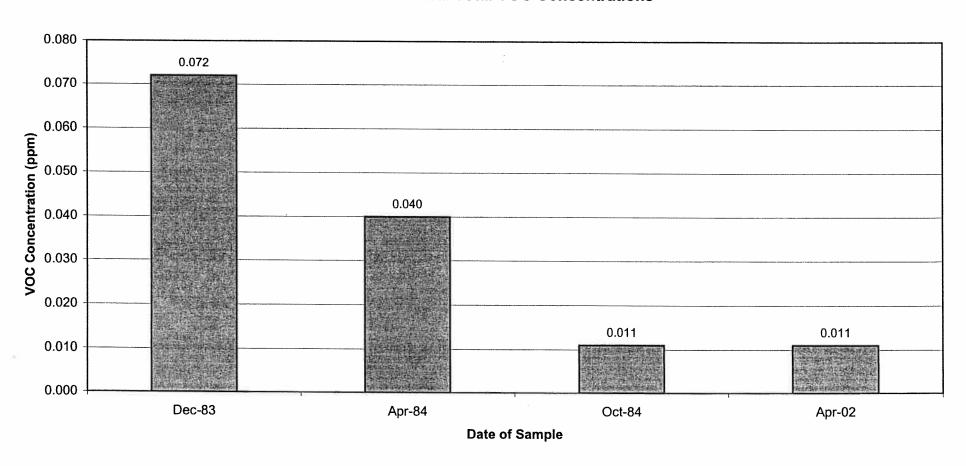
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 43B Historical Total VOC Concentrations



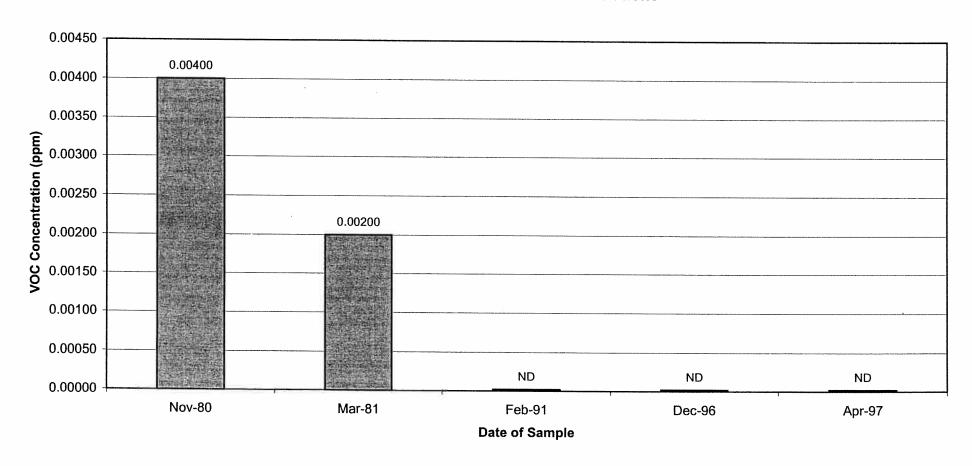
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 54B Historical Total VOC Concentrations



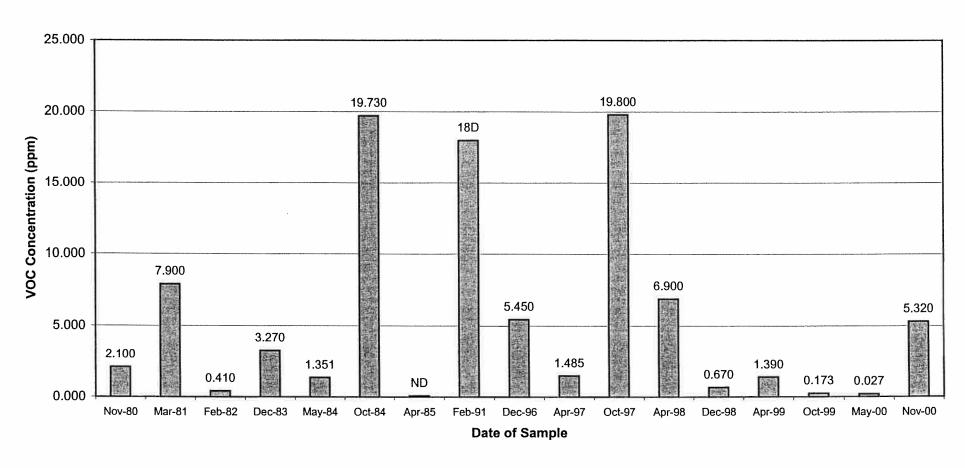
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 82B Historical Total VOC Concentrations



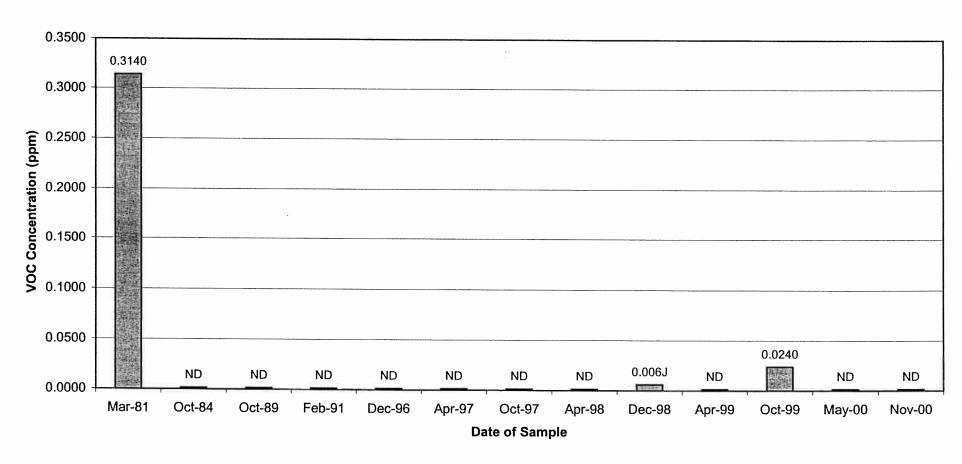
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 89B Historical Total VOC Concentrations



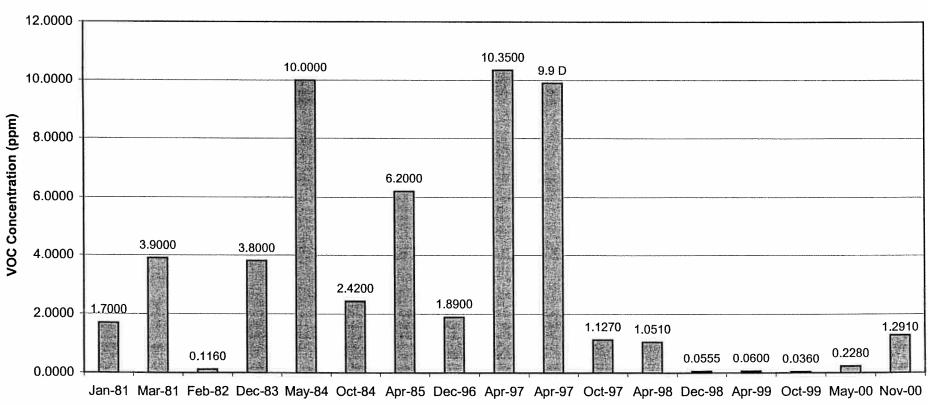
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 90B Historical Total VOC Concentrations



General Electric Company Pittsfield, Massachusetts **Plant Site 2 Groundwater Management Area**

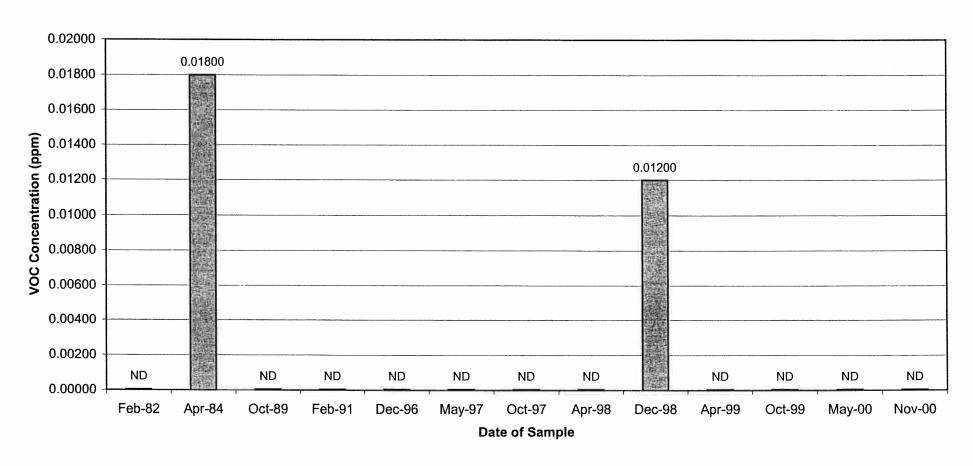
Well 95B Historical Total VOC Concentrations



Date of Sample

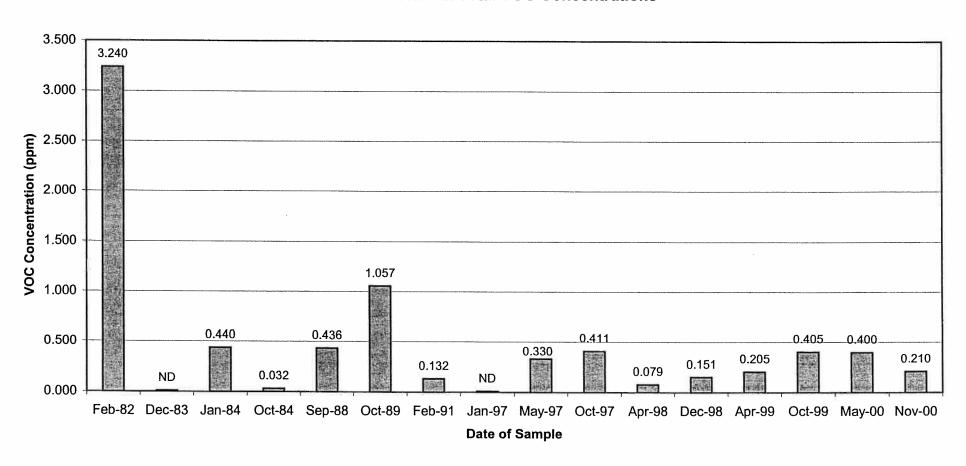
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 111B Historical Total VOC Concentrations



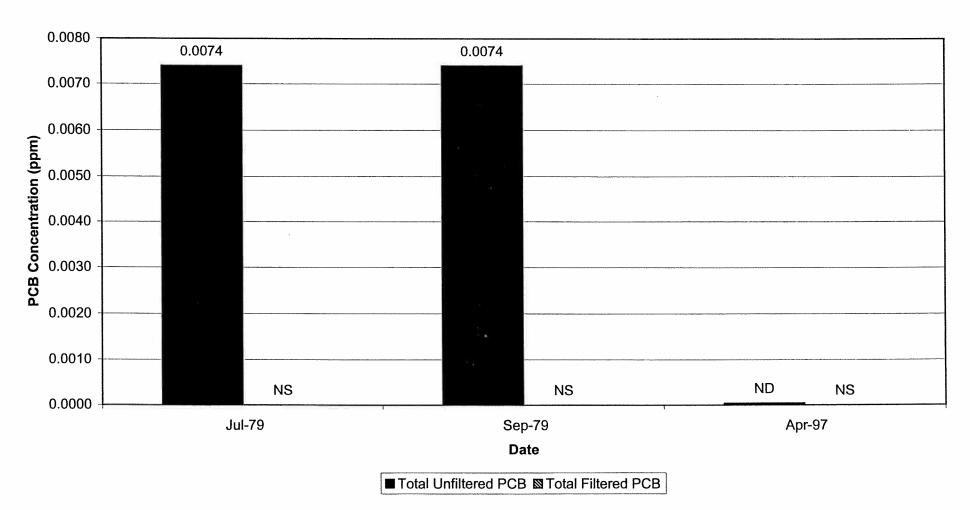
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 114B Historical Total VOC Concentrations



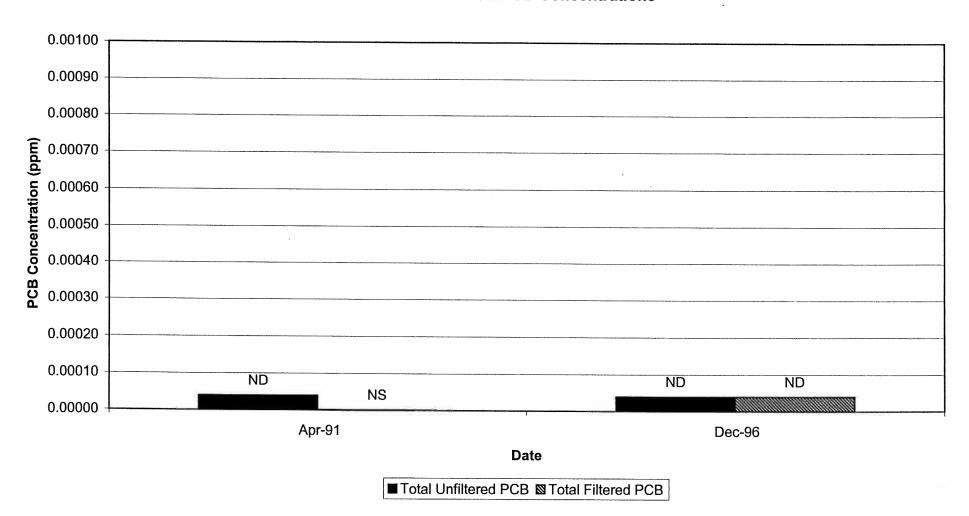
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 2A Historical Total PCB Concentrations



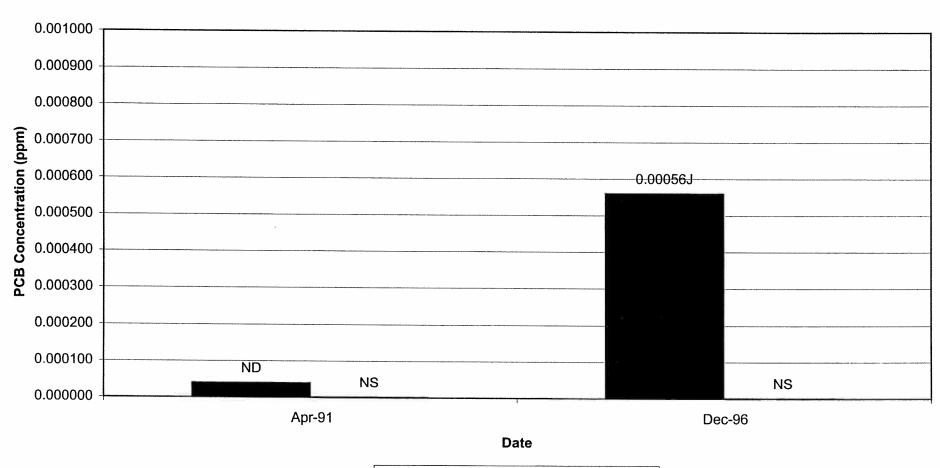
General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 39D Historical Total PCB Concentrations



General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

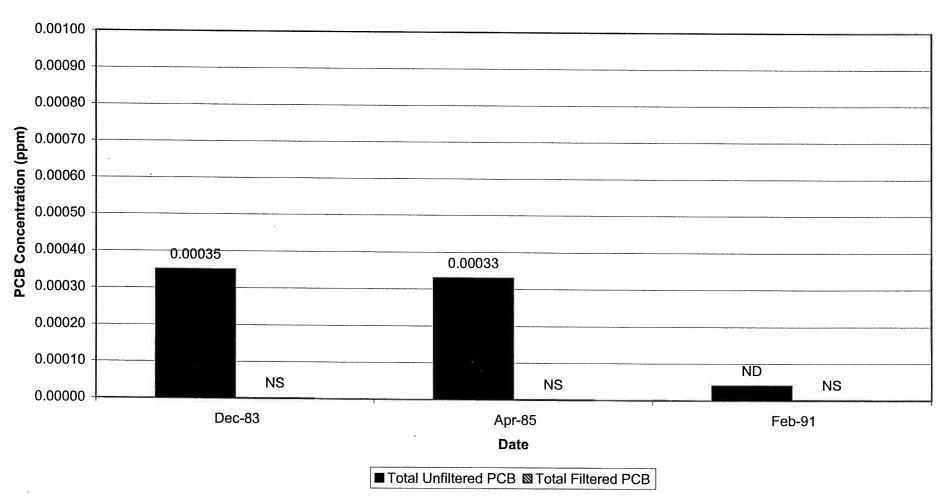
Well 39E Historical Total PCB Concentrations



■ Total Unfiltered PCB
Total Filtered PCB

General Electric Company Pittsfield, Massachusetts Plant Site 2 Groundwater Management Area

Well 43A Historical Total PCB Concentrations



Appendix G

Data Validation Report



APPENDIX G

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3

SPRING 2002 GROUNDWATER SAMPLING DATA VALIDATION REPORT

1.0 General

This attachment summarizes the Tier I and Tier II data review performed for groundwater samples collected at the Groundwater Management Area (GMA 3) located in Pittsfield, Massachusetts. The samples were analyzed for various constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents --benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3) and natural attenuation parameters, by CT&E Environmental Services, Inc. of Charleston, West Virginia. Data validation was performed for 8 polychlorinated biphenyl (PCB) samples, 20 volatile organic compound (VOC) samples, 4 semi-volatile organic compound (SVOC) samples, 4 pesticide/herbicide samples, 4 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples, 18 metals samples, 10 natural attenuation parameters, and 17 cyanide/sulfide samples that were collected.

2.0 Data Evaluation Procedures

This attachment outlines the applicable quality control criteria utilized during the data review process and any deviations from those criteria. The data review was conducted in accordance with the following documents:

- Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland, Bouck & Lee, Inc. (FSP/QAPP; approved October 17, 2000);
- Region I Tiered Organic and Inorganic Data Validation Guidelines, USEPA Region I (July 1, 1993);
- Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, USEPA Region I (June 13, 1988) (Modified February 1989);
- Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, USEPA Region I (February 1, 1988) (Modified November 1, 1988);
- Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, USEPA Region I (Draft, December 1996); and
- National Functional Guidelines for Dioxin/Furan Data Validation, USEPA (Draft, January 1996).

A tabulated summary of the Tier I and Tier II data evaluation is presented in Table G-1. Each sample subjected to evaluation is listed in Table G-1 to document that data review was performed, as well as present the highest level of data validation (Tier I or Tier II) that was applied. Samples that required data qualification are listed separately for each parameter (compound or analyte) that required qualification.

The following data qualifiers have been used in this data evaluation.

- J The compound or analyte was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound or analyte is detected at estimated concentrations less than the practical quantitation limit (PQL).
- U The compound or analyte was analyzed for, but was not detected. The sample quantitation limit is presented and adjusted for dilution and (for solid samples only) percent moisture. Non-detected sample results are presented as ND(PQL) within this report and in Table G-1 for consistency with previous documents prepared for this investigation.
- UJ The compound or analyte was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual level of quantitation. Non-detected sample results that required qualification are presented as ND(PQL) J within this report and in Table G-1 for consistency with previous documents prepared for this investigation.
- R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data should not be used for any qualitative or quantitative purposes.

3.0 Data Validation Procedures

The FSP/QAPP provides (in Section 7.5) that all analytical data will be validated to a Tier I level following the procedures presented in the *Region I Tiered Organic and Inorganic Data Validation Guidelines* (USEPA guidelines). Accordingly, 100% of the analytical data for these investigations were subjected to Tier I review. The Tier I review consisted of a completeness evidence audit, as outlined in the *USEPA Region I CSF Completeness Evidence Audit Program* (USEPA Region I, 7/31/91), to ensure that all laboratory data and documentation were present. A tabulated summary of the samples subjected to Tier I and Tier II data evaluation is presented below.

Summary of Samples Subjected to Tier I and Tier II Data Validation

		Tier I Only			Tier I &Tier I	I	
Parameter	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	Total
PCBs	6	0	0	2	0	0	8
VOCs	0	0	0	16	1	3	20
SVOCs	0	0	0	4	0	0	4
Pesticides/ Herbicides	3	0	0	1	0	0	4
PCDDs/PCDFs	0	0	0	4	0	0	4
Metals	2	0	0 .	15	1	0	18
Natural Attenuation Parameters	7	1	0	2	0	0	10
Cyanide/Sulfide	9	1	0 '	7	0	0	17
Total	27	2	0	51	2	3	85

In the event that data packages were determined to be incomplete, the missing information was requested from

 $8/30/02 $$V:\GE_Pittsfield_CD_GMA_3\Reports and Presentations\Spring 2002 GW Monitoring Report\1262AppG.doc$

the laboratory. Upon completion of the Tier I review, the data packages complied with the USEPA Region I Tier I data completeness requirements.

As specified in the FSP/QAPP, approximately 25% of the laboratory sample delivery group packages were randomly chosen to be subjected to a Tier II review. A Tier II review was also performed to resolve data usability limitations that were identified from laboratory qualification of the data during the Tier I data review. The Tier II data review consisted of a review of all data package summary forms for identification of quality assurance/quality control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. Due to the variable sizes of the data packages and the number of data qualification issues identified during the Tier I review, approximately 66% of the data were subjected to a Tier II review. The Tier II review resulted in the qualification of data for several samples due to minor QA/QC deficiencies. Additionally, all field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the FSP/QAPP.

When qualification of the sample data was required, the sample results associated with a QA/QC parameter deviation were qualified in accordance with the procedures outlined in the USEPA Region I data validation guidance documents. When the data validation process identified several quality control deficiencies, the cumulative effect of the various deficiencies was employed in assigning the final data qualifier. A summary of the QA/QC parameter deviations that resulted in data qualification is presented below for each analytical method.

4.0 Data Review

Initial calibration criterion for organic analyses requires that the average relative response factor (RRF) has a value greater than 0.05. Sample results were qualified as an estimate (J) when this criterion was exceeded. The compounds that exceeded initial calibration criterion and the number of samples qualified are presented below.

Analysis Qualified Due to Initial Calibration RRF Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Acetone	20	J
	Acetonitrile	20	J
	Acrolein	20	J
	Acrylonitrile	20	J
	Isobutanol	. 20	J
	Propionitrile	20	J
SVOCs	4-Phenylenediamine	4	J

Continuing calibration criterion for organic analyses requires that the continuing calibration RRF has a value greater than 0.05. Sample results were qualified as an estimate (J) when this criterion was exceeded. The compounds that exceeded continuing calibration criterion and the number of samples qualified are presented below.

Analysis Qualified Due to Continuing Calibration RRF Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	20	J

Analysis Qualified Due to Continuing Calibration RRF Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Chloroethylvinylether	20	J

Several of the organic compounds (including the compounds presented in the two tables above detailing RRF deviations) exhibit instrument response factors (RFs) that are below the USEPA Region I minimum value of 0.05, but meet the analytical method criterion, which does not specify minimum response factors for these compounds. These compounds were analyzed by the laboratory at a higher concentration than the compounds that normally exhibit RFs greater than the USEPA Region I minimum value of 0.05 in an effort to demonstrate acceptable response. USEPA Region I guidelines state that non-detected compound results associated with a RF less than the minimum value of 0.05 are to be rejected. In the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detected samples results were qualified as an estimate (J).

The continuing calibration criterion requires that the %D between the initial calibration RRF and the continuing calibration RRF for VOCs and SVOCs be less than 25% and for pesticides less than 15%. Sample data for detected and non-detected compounds with %D values that exceeded the continuing calibration criterion were qualified as approximated (J). A summary of the compounds that exceeded continuing calibration criterion and the number of samples qualified due to those deviations are identified below.

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,1,1,2-Tetrachloroethane	6	J
THE SECOND SECON	Naphthalene	1	J
	Tetrachloroethene	1	J
	Vinyl Acetate	1	J
SVOCs	1,3,5-Trinitrobenzene	3	J
	1,3-Dinitrobenzene	3	J
	2,3,4,6-Tetrachlorophenol	2	J
T2005198 2008	2,6-Dinitrotoluene	4	J
NAME OF THE OWNER OWNER OF THE OWNER OWNE	2-Nitroaniline	1	J
	4-Chlorobenzilate	2	J
	7,12-Dimethylbenz(a)anthracene	3	J
Principal Control of the Control of	a,a'-Dimethylphenethylamine	. 1	J
000 pt 100 pt 10	Aramite	3	J
	Benzidine	3	J
	Benzoic Acid	1	J
	Diphenylamine	1	J
	Hexachloropropene	4	J
	Pentachloronitrobenzene	4	J
Pesticides	4,4'-DDT	1	J
	Methoxychlor	1	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method CRDL. These standards are required to have

recoveries between 80 and 120% to verify that the analytical instrumentation was properly calibrated. When CRDL standard recoveries exceeded the 80 to 120% control limits, the affected samples with detected results at or near the CRDL concentration (less than three times the CRDL) were qualified as approximated (J). The analytes that exceeded CRDL criteria and the number of samples qualified due to those deviations are presented below.

Analytes Qualified Due to CRDL Deviations

Analysis	Analytes	Number of Affected Samples	Qualification
Inorganics	Thallium	4	J
	Zinc	4	J

Field, laboratory, and method blanks were analyzed to evaluate whether field sampling equipment or laboratory background contamination may have contributed to the reported sample results. When detected analytes were identified in a blank sample, blank action levels were calculated at 10 times the blank concentrations for the common laboratory contaminant compounds (OCDD and OCDF) and five times the blank concentration for all other detected analytes. Detected sample results that were below the blank action level were qualified with a "U." The analytes detected in the method blanks, and which resulted in qualification of sample data, are presented below.

Compounds Qualified Due to Blank Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCDDs/PCDFs	OCDD	3	U

Surrogate compounds are analyzed with every organic sample to aid in the evaluation of the sample extraction efficiency. As specified in the FSP/QAPP, two of the three SVOC surrogate compounds within each fraction must be within the laboratory specified control. Sample data for detected and non-detected compounds with surrogate that exceeded the surrogate recovery criteria and exhibited recoveries greater than 10 percent were qualified as approximate (J). A summary of the compounds affected by surrogate recovery exceedences and the samples qualified due to those deviations are shown below.

Compounds Qualified Due to Surrogate Recovery Deviations

	Analysis	Compound	Number of Affected Samples	Qualification
1	SVOCs	All Base-neutral compounds	1	J

5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability for site characterization purposes. Data completeness is defined as the percentage of sample results that have been determined to be usable during the data validation process. Data completeness with respect to usability was calculated separately for inorganics and each of the organic analyses. The percent usability calculation included analyses evaluated under both Tier I and Tier II data validation reviews. The percent usability calculation also includes quality control samples collected to aid in the evaluation of data usability. Therefore, field/equipment blank, trip blank, and field duplicate data determined to be unusable as a result of the validation process are represented in the percent usability value tabulated below.

Data Usability

Parameter	Percent Usability	Rejected Data
Inorganics	100	None
Natural Attenuation Parameters	100	None
Cyanide and Sulfide	100	None
Volatile Organics	100	None
Semi-Volatile Organics	100	None
PCBs	100	None
Pesticides and Herbicides	100	None
PCDDs/PCDFs	100	None

The data package completeness, as determined from the Tier I data review, was used in combination with the data quality deviations identified during the Tier II data review to determine overall data quality. As specified in the FSP/QAPP, the overall precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters determined from the Tier I and Tier II data reviews were used as indicators of overall data quality. These parameters were assessed through an evaluation of the results of the field and laboratory QA/QC sample analyses to provide a measure of compliance of the analytical data with the data quality objectives (DQOs) specified in the FSP/QAPP. Therefore, the following sections present summaries of the PARCC parameters assessment with regard to the DQOs specified in the FSP/QAPP.

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included laboratory duplicates, field duplicates, matrix spike/matrix spike duplicate (MS/MSD) samples, and ICP serial dilution samples. For this analytical program, 0.025% of the data were qualified for field duplicate RPD deviations. None of the data required qualification for laboratory duplicate RPD, MS/MSD RPD, or ICP serial dilutions.

5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, laboratory control standards (LCSs), MS/MSD samples, contract required detection limit (CRDL) samples, and surrogate compound recoveries. For this analytical program, 9.4% of the data required qualification for calibration deviations, 4.3% of the data required qualification for surrogate compound recoveries, and 0.36% of the data required qualification for CRDL standard recoveries. None of the data required qualification for MS/MSD recoveries, internal standard recoveries, or LCS recoveries.

5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter which is most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by making certain that sampling locations are selected properly and a sufficient number of samples are collected. This parameter has been addressed by collecting samples at locations specified in Agency approved work plans, and by following the procedures for sample collection/analyses that were described in the FSP/QAPP. Additionally, the analytical program used procedures that were consistent with USEPA approved analytical methodology.

A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the samples in a state that is representative of the in-situ field conditions before analysis. For this analytical program, none of the data required qualification for exceeding holding time requirements.

5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. The USEPA SW-846¹ analytical methods presented in the FSP/QAPP are updated on occasion by the USEPA to benefit from recent technological advancements in analytical chemistry and instrumentation. In most cases, the method upgrades include the incorporation of new technology that improves the sensitivity and stability of the instrumentation or allows the laboratory to increase throughput without hindering accuracy and precision. Overall, the analytical methods for this investigation have remained consistent in their general approach through continued use of the basic analytical techniques (i.e., sample extraction/preparation, instrument calibration, QA/QC procedures, etc.). Through this use of consistent base analytical procedures and by requiring that updated procedures meet the QA/QC criteria specified in the FSP/QAPP, the analytical data from past, present, and future sampling events will be comparable to allow for qualitative and quantitative assessment of site conditions.

5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness of this analytical data set was 100 percent for individual analytical parameters and had an overall usability of 100 percent, which is greater than the minimum required usability of 90 percent as specified in the FSP/QAPP.

¹ Test Methods for evaluating Solid Waste, SW-846, USEPA, Final Update III, December 1996

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs			ANTA-LINE	MITTING SOUTH	HERE STANDARDSHIP	an additional orbits.			and the same		
2D0P698	6B	4/25/2002	Water	Tier I	No						- Herrito
2D0P698	6B-Filtered	4/25/2002	Water	Tier I	No						
2D0P698	78B-R	4/25/2002	Water	Tier I	No						
2D0P698	78B-R-Filtered	4/25/2002	Water	Tier I	No						
2D0P727	GMA3-6	4/25/2002	Water	Tier II	No						
2D0P727	GMA3-6-Filtered	4/25/2002	Water	Tier II	No						
E0P001	54B	4/29/2002	Water	Tier I	No			-			
2E0P001	54B-Filtered	4/29/2002	Water	Tier I	No						
esticides a	nd Herbicides			2.100				4			
D0P698	6B	4/25/2002	Water	Tier I	No		- p	r			
2D0P698	78B-R	4/25/2002	Water	Tier I	No						
DOP727	GMA3-6	4/25/2002	Water	Tier II		4.4'-DDT	CCAL %D	27.500	7.60		
			18930	2000.00	50.000	Methoxychlor	CCAL %D	36.20%	<15%	ND(0.00010) J	
2E0P001	54B	4/29/2002	Water	Tier I	No	мешохусто	CCAL 76D	36.20%	<15%	ND(0.00050) J	×
Metals											
D0P634	002A-Filtered	4/23/2002	Water	Tier I	No						
2D0P634	39D-Filtered	4/23/2002	Water	Tier I	No			ļ			
D0P698	16C-Filtered	4/25/2002	Water	Tier II	No						
D0P698	16E-Filtered	4/25/2002	Water	Tier II	No			<u> </u>			
D0P698	6B	4/25/2002	Water	Tier II		Thallium	CRDL Standard %R				
				1 10. 11		Zinc	CRDL Standard %R CRDL Standard %R	71.0%	80% to 120%	ND(0.0100) J	
D0P698	6B-Filtered	4/25/2002	Water	Tier II		Thallium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0200) J	
						Zinc	CRDL Standard %R	71.0%	80% to 120%	ND(0.0100) J	
D0P698	78B-R	4/25/2002	Water	Tier II		Thallium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0200) J	
					103	Zinc	CRDL Standard %R	71.0%	80% to 120%	ND(0.0100) J	
D0P698	78B-R-Filtered	4/25/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R CRDL Standard %R	79.8%	80% to 120%	ND(0.0200) J	
					. 05	Zinc	CRDL Standard %R	71.0%	80% to 120%	ND(0.0100) J	
D0P698	MW-39-E-Filtered	4/25/2002	Water	Tier II	No	W111V	CKUL Standard 76K	79.8%	80% to 120%	ND(0.0200) J	
D0P727	16A-Filtered	4/26/2002	Water	Tier II	No						
D0P727	16B-R-Filtered	4/26/2002	Water	Tier II	No			 			
D0P727	43A-Filtered	4/26/2002	Water	Tier II	No			 			
D0P727	43B-Filtered	4/26/2002	Water	Tier II	No			 			
D0P727	DUP-7-Filtered	4/26/2002	Water	Tier II	No			 			
D0P727	GMA3-6	4/25/2002	Water	Tier II	No			 			
D0P727	GMA3-6-Filtered	4/25/2002	Water	Tier II	No						
E0P001	54B	4/29/2002	Water	Tier II	No						
E0P001	54B-Filtered	4/29/2002	Water	Tier II	No						

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs									12037407		Service Laboratory
2D0P634	002A	4/23/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
	1		l			2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
	1		l			Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
		u i				Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
	1					Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
	1					Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
			Ų.			Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P634	39D	4/23/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
	1		Į.			2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
	ł					Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
	ł	1				Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
		n li				Isobutanol	ICAL RRF	0.018	>0.05	ND(0,10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
D0P634	51-14	4/23/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
		1	1	•		Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
			1			Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
			1			Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
	•					Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
	<u> </u>					Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
D0P634	GMA3-4	4/23/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
	1					Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
]			Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
·						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
D0P698	16C	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
			1			Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
		1				Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
	L					Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	***************************************

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (conti	nued)					Marin and State of the State of	OTE WIND A SECTION OF THE SECTION OF	STHORE STATISTED	SELECTION OF SELECTION		
2D0P698	16E	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0,20) J	
		1				2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
	1	1				Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
			l			Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
		1				Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
D0P698	6B	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
	İ					2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
	Ì					Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	*******
			ļ			Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
D0P698	78B-R	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0,001	>0.05	ND(0,20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
		1				Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
		1				Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	······
					Ì	Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		1				Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P698	MW-39-E	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
				ļ		2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
				į.		Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
				1		Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
				İ		Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
D0P698	TRIP BLANK	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
		1	l			Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (conti	nued)						NISSESTERN CARRIOGRAPHIC		PASTAMENTO SELECTION DE	的是现代。10月1日1日1日1日	
D0P727	16A	4/26/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	1 0.001	1		
						2-Chloroethylvinylether	CCAL RRF	0.001	>0.05	ND(0.20) J	
						Acetone	ICAL RRF	0.046	>0.05	ND(0.010) J	
		1			1	Acetonitrile	ICAL RRF	0.037	>0.05 >0.05	ND(0.010) J	
					l i	Acrolein	ICAL RRF	0.033	>0.05	ND(0.10) J	
					j g	Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.10) J	
				١.	0	Isobutanol	ICAL RRF	0.018	>0.05	ND(0.010) J ND(0.20) J	·
						Naphthalene	CCAL %D	33.60%	<30%	0.060 J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J	
		İ				Tetrachloroethene	CCAL %D	38.80%	<30%	ND(0.020) J ND(0.010) J	
						Vinyl Acetate	CCAL %D	32.80%	<30%	ND(0.010) J	
D0P727	16B-R	4/26/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.010) J ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.0030) J ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
		1				Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
D0P727	43A	1/2 5/2000				Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
JUI 121	43A	4/26/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
		1				2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
D0P727	43B	4/26/2002	777			Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
JUL 121	מנד	4/26/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
O0P727	DUP-7	4/26/2002	Water	Tion II		Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
(100)	D (1-1	4/20/2002	water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
		.1		1		Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (conti	inued)		- C. C. C. C. C. C. C. C. C. C. C. C. C.		HILL-DA-LIZERY	CAMPBOUND DESCRIPTION			是1000 · 1000 ·		
D0P727	DUP-7	4/26/2002	Water	Tier II	Yes	Acetonitrile	ICAL RRF				
				7.0.1	1 65	Acrolein	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrylonitrile		0.027	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF ICAL RRF	0.020	>0.05	ND(0.0050) J	
		1	1			Propionitrile		0.018	>0.05	ND(0.10) J	*
D0P727	GMA3-2	4/26/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	ICAL RRF	0.010	>0.05	ND(0.010) J	
			,,	Tiern	165		CCAL %D	38.4%	<30%	ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
D0P727	GMA3-6	4/25/2002	Water	Tier II		Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
	GMA15-0	4/23/2002	water	1 1er 11	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0,05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	***************************************
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
D0P727	TRIP BLANK	4/26/2002	X17 .			Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
127	INI BLAIN	4/20/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.0050) J	
	ļ					1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
	ļ					2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
E0P001	can.					Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
EUPUUI	54B	4/29/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	·····
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
OCs (conti	inued)				William William Co.	THE PERSON NAMED OF STREET, ST. LEWIS CO., LANSING, ST. LEWIS CO., LANSING, ST. LEWIS CO., LANSING, ST. LEWIS CO., LANSING, ST. LEWIS CO., LANSING, ST. LEWIS CO., LANSING, ST. LEWIS CO., LANSING, ST. LEWIS CO., LANSING, ST. LEWIS CO., LANSING, ST. LEWIS CO., LANSING, ST. LEWIS CO., LANSING,	NOT AND THE TAX TO SELECT THE	A THE WAY THE	- Sometime to the court of	同意,是是一种企业	Bridge Andread
E0P001	TRIP BLANK	4/29/2002	Water	Tier II	Yes	1,4-Dioxane	COLL BRE				
		was resident	11.000	3,52,13	165	2-Chloroethylvinylether	CCAL RRF	0.001	>0.05	ND(0.20) J	
	1					Acetone Acetone	CCAL RRF	0.046	>0.05	ND(0.0050) J	
	İ	1		1		Acetonitrile	ICAL RRF	0.037	>0.05	ND(0.010) J	
		1				Acrolein	ICAL RRF	0.033	>0.05	ND(0.10) J	
		1	1	1		Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.10) J	
		1				Isobutanol	ICAL RRF	0.020	>0.05	ND(0.0050) J	
							ICAL RRF	0.018	>0.05	ND(0.10) J	
VOCs						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
D0P698	6B	4/25/2002	Water	Tier II	37	la a c m t to					
		472372002	W atti	116111	Yes	1,3,5-Trinitrobenzene	CCAL %D	56.1%	<30%	ND(0.010) J	
	t .					1,3-Dinitrobenzene	CCAL %D	45.9%	<30%	ND(0.010) J	
	ł					2,6-Dinitrotoluene	CCAL %D	35.4%	<30%	ND(0.010) J	
		1				4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
	į.						CCAL %D	40.4%	<30%	ND(0.010) J	
						Aramite	CCAL %D	55.6%	<30%	ND(0.010) J	
	i					Benzidine	CCAL %D	49.8%	<30%	ND(0.020) J	
						Hexachloropropene	CCAL %D	39.2%	<30%	ND(0.010) J	
D0P698	78B-R 4/25/2002	Water	Tier II	Yes	Pentachloronitrobenzene	CCAL %D	31.2%	<30%	ND(0.010) J		
		472372002	water	110111		1,3,5-Trinitrobenzene	CCAL %D	56.1%	<30%	ND(0.010) J	
					-	1,3-Dinitrobenzene	CCAL %D	45.9%	<30%	ND(0.010) J	
		1				2,6-Dinitrotoluene	CCAL %D	35.4%	<30%	ND(0.010) J	
						7,12-Dimethylbenz(a)anthracene	CCAL %D	40.4%	<30%	ND(0.010) J	
						Aramite	CCAL %D	55.6%	<30%	ND(0.010) J	
						Benzidine	CCAL %D	49.8%	<30%	ND(0.020) J	
						Hexachloropropene	CCAL %D	39.2%	<30%	ND(0.010) J	······································
						Pentachloronitrobenzene	CCAL %D	31.2%	<30%	ND(0.010) J	~
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						1,2,4,5-Tetrachlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						1,2,4-Trichlorobenzene	Surrogate Recovery Base-neutral	22 09/ 209/ 22 09/	114.0%, 33.0%-141.0%		
							om. ogate recovery pase-neutral	33.070,2970,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
				I		1,2-Dichlorobenzene	C		114.0%, 33.0%-141.0%	•	4
						1,2-Dictiologicalene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						1,2-Diphenylhydrazine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	
									114.0%, 33.0%-141.0%		

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Välüe	Control Limits	Qualified Result	Notes	
SVOCs (con	tinued)		1				2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	gravitorios (n. 15, 168 du 18, 34 m. c.)	The stage of the stage of the	Contract Con	partition and programme	
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	1,3-Dichlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J		
					•				114.0%, 33.0%-141.0%			
						1,4-Dichlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	0.016 J		
									114.0%, 33.0%-141.0%			
						1,4-Naphthoquinone	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J		
								<u> </u>	114.0%, 33.0%-141.0%			
						1-Naphthylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J		
									114.0%, 33.0%-141.0%			
					2,4-Dinitrotoluene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J			
							114.0%, 33.0%-141.0%					
							2-Acetylaminofluorene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						2 (14			114.0%, 33.0%-141.0%			
				The state of the s		2-Chloronaphthalene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J		
						2 16 4 4 4 1 14 1			114.0%, 33.0%-141.0%			
						2-Methylnaphthalene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	0.0074 J		
						231 1.1 1			114.0%, 33.0%-141.0%			
						2-Naphthylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J		
						2-Nitroaniline			114.0%, 33.0%-141.0%			
						2-Nitroaniine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.050) J		
						2-Picoline	Surrogate Recovery Base-neutral	22.00/.200/.22.00/	114.0%, 33.0%-141.0%	NID (O OLO) Y		
						2-1 ACOINIC	Surrogate Recovery Base-heutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%- 114.0%, 33.0%-141.0%	ND(0.010) J		
						3,3'-Dichlorobenzidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.020) J		
									114.0%, 33.0%-141.0%			
						3,3'-Dimethylbenzidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J		
									114.0%, 33.0%-141.0%			

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (con	tinued)		LOS WATER CALL	STATE OF THE PARTY	Parameter Self-Self-Self-Self-Self-Self-Self-Self-	POLICE PROPERTY CANADA	THE RESERVE WILLIAM STATES	WE THOUGHT THE CO		CONTRACTOR STORY	
D0P698	78B-R	4/25/2002	Water	Tier II	Yes	3-Methylcholanthrene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
									114.0%, 33.0%-141.0%		
						3-Nitroaniline	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.050) J	
						<u> </u>			114.0%, 33.0%-141.0%		
						4-Aminobiphenyl	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						4-Bromophenyl-phenylether	C	22 20/ 202/ 22 20/	114.0%, 33.0%-141.0%		
						4-Bromophenyi-phenyiether	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						4-Chloroaniline	Surrogate Recovery Base-neutral	33 09/ 209/ 23 09/	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	
						- Chaorominate	Surrogate Necovery Base-neutral	33.076,2976,23.076	114.0%, 33.0%-141.0%	ND(0.010) J	
				4-Chlorobenzilate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J			
									114.0%, 33.0%-141.0%		
					,	4-Chlorophenyl-phenylether	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
					İ	4-Nitroaniline			114.0%, 33.0%-141.0%		
						4-Nitroaniine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.050) J	
						4-Nitroquinoline-1-oxide	Surrogate Recovery Base-neutral	22.00/.200/.22.00/	114.0%, 33.0%-141.0%	ND(0.010) I	
						1 Tranoquinomic-1-oxide	Surrogate Recovery Dase-Heutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%- 114.0%, 33.0%-141.0%	ND(0.010) J	
						5-Nitro-o-toluidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
									114 08/ 22 08/ 141 08/		
						a,a'-Dimethylphenethylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	
								33.070,2370,23.070	114.0%, 33.0%-141.0%	ND(0.010)3	
						Acenaphthene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	0.0049 J	
									114.0%, 33.0%-141.0%		
						Acenaphthylene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
									114.0%, 33.0%-141.0%		
					Acetophenone	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J		
		1	<u> </u>	L	<u> </u>				114.0%, 33.0%-141.0%		

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes		
VOCs (con	tinued)							THE RESERVE THE PARTY OF THE PA	CARL STATE OF THE STATE OF				
D0P698	78B-R	4/25/2002	Water	Tier II	Yes	Aniline	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J			
						Anthracene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J			
						Benzo(a)anthracene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J			
						Benzo(a)pyrene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J			
						Benzo(b)fluoranthene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J			
								Benzo(g,h,i)perylene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	
						Benzo(k)fluoranthene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J			
									114.0%, 33.0%-141.0%	, ,			
						bis(2-Chloroethoxy)methane	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%- 114.0%, 33.0%-141.0%	ND(0.010) J			
				<u></u>	bis(2-Chloroethyl)ether	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J				
						bis(2-Chloroisopropyl)ether	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J			
					bis(2-Ethylhexyl)phthalate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.0060) J				
						Butylbenzylphthalate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J			
						Chrysene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J			
						Diallate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J			
									114.0%, 33.0%-141.0%				

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (con	tinued)							AND RESIDENCE AND SERVICE	CENTRAL MINISTER		
D0P698	78B-R	4/25/2002	Water	Tier II	Yes	Dibenzo(a,h)anthracene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
									114.0%, 33.0%-141.0%		
						Dibenzofuran	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	0.0046 Ј	
			1						114.0%, 33.0%-141.0%		
						Diethylphthalate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						Dimethoate			114.0%, 33.0%-141.0%		
						Dimethoate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.050) J	
						Dimethylphthalate	Surrogate Recovery Base-neutral	22 00/ 200/ 22 00/	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	
						2 many phinasac	Surrogate Recovery Base-neutral	33.076,2976,23.076	114.0%, 33.0%-141.0%	ND(0.010) 1	
			Di-n-Butylphthalate	Surrogate Recovery Base-neutral	33.0%.29%.23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	***************************************			
								,	114.0%, 33.0%-141.0%	1.2(0.010)	
						Di-n-Octylphthalate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
			1		ľ				114.0%, 33.0%-141.0%		
						Diphenylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	·	ND(0.010) J	
						D: 10			114.0%, 33.0%-141.0%		
						Disulfoton	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						Ethyl Methanesulfonate	Surrogate Recovery Base-neutral	22.00/.200/.22.00/	114.0%, 33.0%-141.0%	375 (0.040) 3	
						Ediyi Medianesunonate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						Ethyl Parathion	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	
							Surrogate Recovery Base-neutral	33.076,2376,23.076	114.0%, 33.0%-141.0%	140(0.010)3	
						Famphur	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.050) J	
									114.0%, 33.0%-141.0%		
						Fluoranthene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
								<u></u>	114.0%, 33.0%-141.0%		
						Fluorene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	0.0041 Ј	
	<u> </u>		L	1	1	I			114.0%, 33.0%-141.0%	i	

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample 1D	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (con	tinued)		12 40 14 1941	300	Charles a page of head of	Charles and the party of the pa			SCHOOL STATE		
OP698	78B-R	4/25/2002	Water	Tier II	Yes	Hexachlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
		1							114.0%, 33.0%-141.0%		
						Hexachlorocyclopentadiene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%		ND(0.010) J	
						I I LI	G	22 22/ 22/ 22	114.0%, 33.0%-141.0%		
				0		Hexachloroethane	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						Hexachlorophene	Surrogate Recovery Base-neutral	22.00/.200/.22.00/	114.0%, 33.0%-141.0%	2/7/(0.000) 1	
						riexacinorophene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.020) J	
		1				Indeno(1,2,3-cd)pyrene	Surrogate Recovery Base-neutral	22.00/.200/.22.00/	114.0%, 33.0%-141.0%	7700000	
						macno(1,2,3-ca)pyrene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
				Isodrin		22.00/.000/.00	114.0%, 33.0%-141.0%				
			N.			ISOUTH	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	, i	ND(0.010) J	
						Izonhowana	C	24 04: 200: 42 00:	114.0%, 33.0%-141.0%		
						Isophorone	Surrogate Recovery Base-neutral	33.0%,29%,23.0%		ND(0.010) J	
						Isosafrole		12 00/ 000/ 04 00/	114.0%, 33.0%-141.0%		
						isosairoie	Surrogate Recovery Base-neutral	33.0%,29%,23.0%		ND(0,010) J	
			ĺ			Kepone	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.050) J	
									114.0%, 33.0%-141.0%		
		1				Methapyrilene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
				j					114.0%, 33.0%-141.0%		•
						Methyl Methanesulfonate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
									114.0%, 33.0%-141.0%		
						Methyl Parathion	Surrogate Recovery Base-neutral	33.0%,29%,23.0%		ND(0.010) J	
				l					114.0%, 33.0%-141.0%		
						Naphthalene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%		ND(0.010) J	
		-				D.T I			114.0%, 33.0%-141.0%		
						Nitrobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%		ND(0.010) J	
	<u> </u>		l			1		1	114.0%, 33.0%-141.0%	1	

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value U	Control Limits	Qualified Result	Notes
VOCs (con	tinued)		Sales Con		Life-divisions at	TAME OF BEST STATES AND ACCOUNT	The state of the second st	Unit of the Alberta of the			STATE OF STREET
D0P698	78B-R	4/25/2002	Water	Tier II	Yes	N-Nitrosodiethylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
									114.0%, 33.0%-141.0%		
						N-Nitrosodimethylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%		ND(0.010) J	
									114.0%, 33.0%-141.0%		
						N-Nitroso-di-n-butylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						2127/			114.0%, 33.0%-141.0%		
						N-Nitroso-di-n-propylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						N-Nitrosodiphenylamine	6 1 2 2	***************************************	114.0%, 33.0%-141.0%		
						N-Ivitrosocipnenyiamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
				N-Nitrosomethylethylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	***************************************		
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Salvogate recovery base neutral	33.076,2376,23.076	114.0%, 33.0%-141.0%	ND(0.010) 3	
						N-Nitrosomorpholine	Surrogate Recovery Base-neutral	33.0%.29%.23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						-			114.0%, 33.0%-141.0%	112(0.070)	
						N-Nitrosopiperidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
									114.0%, 33.0%-141.0%		
						N-Nitrosopyrrolidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
		ł							114.0%, 33.0%-141.0%		
						o,o,o-Triethylphosphorothioate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%		ND(0.010) J	
						o-Toluidine	C B D	22.00/.201/.20.00/	114.0%, 33.0%-141.0%		
						0-1 oluidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						p-Dimethylaminoazobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	
					p Daniedly altranouzoochizene	Sanogate Necovery Base-heunar	33.076,2976,23.076		ND(0.010) 1		
		1				Pentachlorobenzene	Surrogate Recovery Base-neutral	33.0% 20% 23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	
							Sandard recovery Dasc-nettral	JJ.U/9,29/0,23.U70	114.0%, 33.0%-141.0%	ND(0.010) 1	
						Pentachloroethane	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
									114.0%, 33.0%-141.0%		

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (con	tinued)					CONTRACTOR OF THE PROPERTY OF	BE SAFEE HAS SENDER ORDER		COSTENO DE RECENTA	TIPOT N. 148 EUROBE	1965-1964 Front
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	Phenacetin	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						Phenanthrene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	0.0050 J	
									114.0%, 33.0%-141.0%		
						Phorate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						Pronamide	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	
						-			114.0%, 33.0%-141.0%	ì i	
						Pyrene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
						Pyridine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	114.0%, 33.0%-141.0% 43.0%-116.0%, 35.0%-	ND(0.010) J	
									114.0%, 33.0%-141.0%		
		1				Safrole	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
		1							114.0%, 33.0%-141.0%		
						Sulfotep	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
		1				Thionazin	G 1 B		114.0%, 33.0%-141.0%		
						i nionazin	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-	ND(0.010) J	
2D0P727	GMA3-6	4/25/2002	Water	Tier II				<u> </u>	114.0%, 33.0%-141.0%		
EDUE 121	GWIA3-0	4/23/2002	water	1 ier 11	Yes	1,3,5-Trinitrobenzene	CCAL %D	56.1%	<30%	ND(0.010) J	
		1				1,3-Dinitrobenzene	CCAL %D	45.9%	<30%	ND(0.010) J	
						2,3,4,6-Tetrachlorophenol	CCAL %D	43.2%	<30%	ND(0.010) J	
						2,6-Dinitrotoluene 4-Chlorobenzilate	CCAL %D	35.4%	<30%	ND(0.010) J	
						4-Chlorobenzilate 4-Phenylenediamine	CCAL %D	73.1%	<30%	ND(0.010) J	
						7,12-Dimethylbenz(a)anthracene	ICAL RRF CCAL %D	0.031	>0.05	ND(0.010) J	
						Aramite	CCAL %D	40.4%	<30%	ND(0.010) J	
						Benzidine	CCAL %D	55.6% 49.8%	<30%	ND(0.010) J	
						Hexachloropropene	CCAL %D	39.2%	<30%	ND(0.020) J	
						Pentachloronitrobenzene	CCAL %D	39.2%	<30% <30%	ND(0.010) J	
2E0P001	54B	4/29/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	37.4%	<30%	ND(0.010) J ND(0.010) J	
					103	2,6-Dinitrotoluene	CCAL %D	35.4%	<30% <30%	ND(0.010) J ND(0.010) J	
						2-Nitroaniline	CCAL %D	32.0%	<30%	ND(0.010) J ND(0.050) J	
						4-Chlorobenzilate	CCAL %D	38.7%	<30% <30%	ND(0.050) J ND(0.010) J	

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (con	tinued)			0.00 0000000000000000000000000000000000	0.0000000000000000000000000000000000000		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		News Property Comp		140 Sec. 114 Sec. 1
2E0P001	54B	4/29/2002	Water	Tier II	Yes	4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	·
(1				\$30	a,a'-Dimethylphenethylamine	CCAL %D	39.4%	<30%	ND(0.010) J	
	i					Diphenylamine	CCAL %D	41.8%	<30%	ND(0.010) J	
	l.			1		Hexachloropropene	CCAL %D	55.5%	<30%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	49.1%	<30%	ND(0.010) J	
PCDDs/PCI	name .						-10-1				
2D0P698	6B	4/25/2002	Water	Tier II	Yes	OCDD	Method Blank			ND(0.000000013)	1
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	OCDD	Method Blank			ND(0.00000030)	
2D0P727	GMA3-6	4/25/2002	Water	Tier II	No	10=11				***************************************	
2E0P001	54B	4/29/2002	Water	Tier II	Yes	OCDD	Method Blank	-		ND(0.000000017)	
Sulfide and	Cyanide										
2D0P544	78-1	4/18/2002	Water	Tier I	No		Transfer of the second		**************************************	T	1
2D0P544	78-3	4/18/2002	Water	Tier I	No						
2D0P544	78-5	4/18/2002	Water	Tier I	No				ф		Duplicate of GMA5-
2D0P634	002A	4/23/2002	Water	Tier I	No			+	·		Louphicate of Givens-
2D0P634	39D	4/23/2002	Water	Tier I	No						
2D0P698	6B	4/25/2002	Water	Tier II	No		5 NUSSES	+	•		
2D0P698	78B-R	4/25/2002	Water	Tier II	No			+	 		
2D0P698	6B	4/25/2002	Water	Tier II	No				1		
2D0P698	78B-R	4/25/2002	Water	Tier II	No			02//2011			
2D0P698	16C	4/25/2002	Water	Tier II	No			1			
2D0P698	16E	4/25/2002	Water	Tier II	No		——————————————————————————————————————	1	+		
2D0P698	MW-39-E	4/25/2002	Water	Tier II	No						
2D0P727	GMA3-6	4/25/2002	Water	Tier I	No				 		
2D0P727	16A	4/26/2002	Water	Tier I	No						
2D0P727	16B-R	4/26/2002	Water	Tier I	No					0.374700700	
2D0P727	43A	4/26/2002	Water	Tier I	No				 		
2D0P727	43B	4/26/2002	Water	Tier I	No						
2D0P727	DUP-7	4/26/2002	Water	Tier I	No			- X	X	4 4 4 4 4 4 4	
2E0P001	54B	4/29/2002	Water	Tier I	No				 		
Alkalinity, N	Nitrate, Nitrite, DO	C, Sulfate and	Chloride				- Linearing	-1	d		
2D0P634	002A	4/23/2002	Water	Tier II	No	100000000000000000000000000000000000000	T-:			F	
2D0P634	39D	4/23/2002	Water	Tier II	No						1
2D0P698	16C	4/25/2002	Water	Tier I	No						+
2D0P698	16E	4/25/2002	Water	Tier I	No		2/2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				·
2D0P698	MW-39-E	4/25/2002	Water	Tier I	No						+
2D0P727	16A	4/26/2002	Water	Tier I	No						1
2D0P727	16B-R	4/26/2002	Water	Tier I	No			1			
2D0P727	43A	4/26/2002	Water	Tier I	No			+			
2D0P727	43B	4/26/2002	Water	Tier I	No				100		
2D0P727	DUP-7	4/26/2002	Water	Tier I	No			1-15-7			+